DOCUMENT RESUME

ED 229 049 IR 050 249

AUTHOR	Mandel, Carol A., Comp.
TITLE	ARL Statistics 1981-82. A Compilation of Statistics from the One Hundred and Thirteen Members of the Association of Research Libraries.
INSTITUTION	Association of Research Libraries, Washington, D.C.
PUB DATE	82
NOTE	73p.; For related document, see ED 213 424.
PUB TYPE	Statistical Data (110) -- Tests/Evaluation Instruments (160)
EDRS PRICE	MF01/PC03 Plus Postage.
DESCRIPTORS	*Academic Libraries; Doctoral Programs; Enrollment; Higher Education; Interlibrary Loans; *Library Collections; *Library Expenditures; *Library Personnel; Library Surveys; Microforms; Questionnaires; *Research Libraries; Statistical Analysis; Tables (Data)
IDENTIFIERS	*Association of Research Libraries; *Library Statistics; Rank Order

ABSTRACT

This report presents data compiled from the 113 libraries that were members of the Association of Research Libraries (ARL) during the 1981/82 academic year, as well as an examination of trends in ARL university libraries from 1975-76 through 1981-82. It is noted that the most important change in 1982 was the smaller rise in serials expenditure and the concomitant steeper increase in expenditures for other materials. Research library resources, staffing, expenditures, and interlibrary loan activity are covered in the report's data tables. Further report sections include: an analysis of selected variables; an analysis of microform holdings; Ph.D. and enrollment statistics; the ARL Library Index; a summary of rank order tables for ARL university libraries; and the rank order tables for volumes in library, volumes added (gross), microform holdings, current serials, professional staff, nonprofessional staff, total staff, materials expenditures, materials and binding expenditures, salaries and wages expenditures, total operating expenditures, total items loaned, total items borrowed, and current serials expenditures. A copy of the ARL Statistics Questionnaire and instructions for its use are included. (ESR)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

ED229049

U.S. DEPARTMENT OF EDUCATION
NATIONAL INSTITUTE OF EDUCATION
EDUCATIONAL RESOURCES INFORMATION
CENTER (ERIC)

This document has been reproduced as received from the person or organization originating it.

Minor changes have been made to improve reproduction quality.

Points of view or opinions stated in this document do not necessarily represent official NIE position or policy.

ARL STATISTICS

1981-82

A COMPILATION OF STATISTICS FROM THE ONE HUNDRED AND THIRTEEN MEMBERS OF THE ASSOCIATION OF RESEARCH LIBRARIES

Compiled by

Carol A. Mandel

with the assistance of
Alexander Lichtenstein

ASSOCIATION OF RESEARCH LIBRARIES
WASHINGTON, D.C.
1982

IR 050 249

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

C. Mandel

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

ARL Statistics is published annually by the Association of Research Libraries, 1527 New Hampshire Avenue, N.W., Washington, D.C. 20036.

Price: ARL members, $8.00/year
Nonmembers, $10.00/year

ARL statistical data are also available from the Association in machine readable form.

ARL Statistics is not copyrighted and may be reproduced without the permission of the publisher.

Association of Research Libraries.
ARL statistics.
Washington, Association of Research Libraries.

v. 29 cm.

Began with 1974/75 issue.
Continues: Academic library statistics, ISSN 0571-0519.
Key title: ARL statistics, ISSN 0147-2135

1. Libraries, University and college—United States—Statistics—Collected works. 2. Research libraries—United States—Statistics—Collected works. 3. Libraries, University and college — Canada — Statistics—Collected works. 4. Research libraries—Canada—Statistics—Collected works. I. Title.

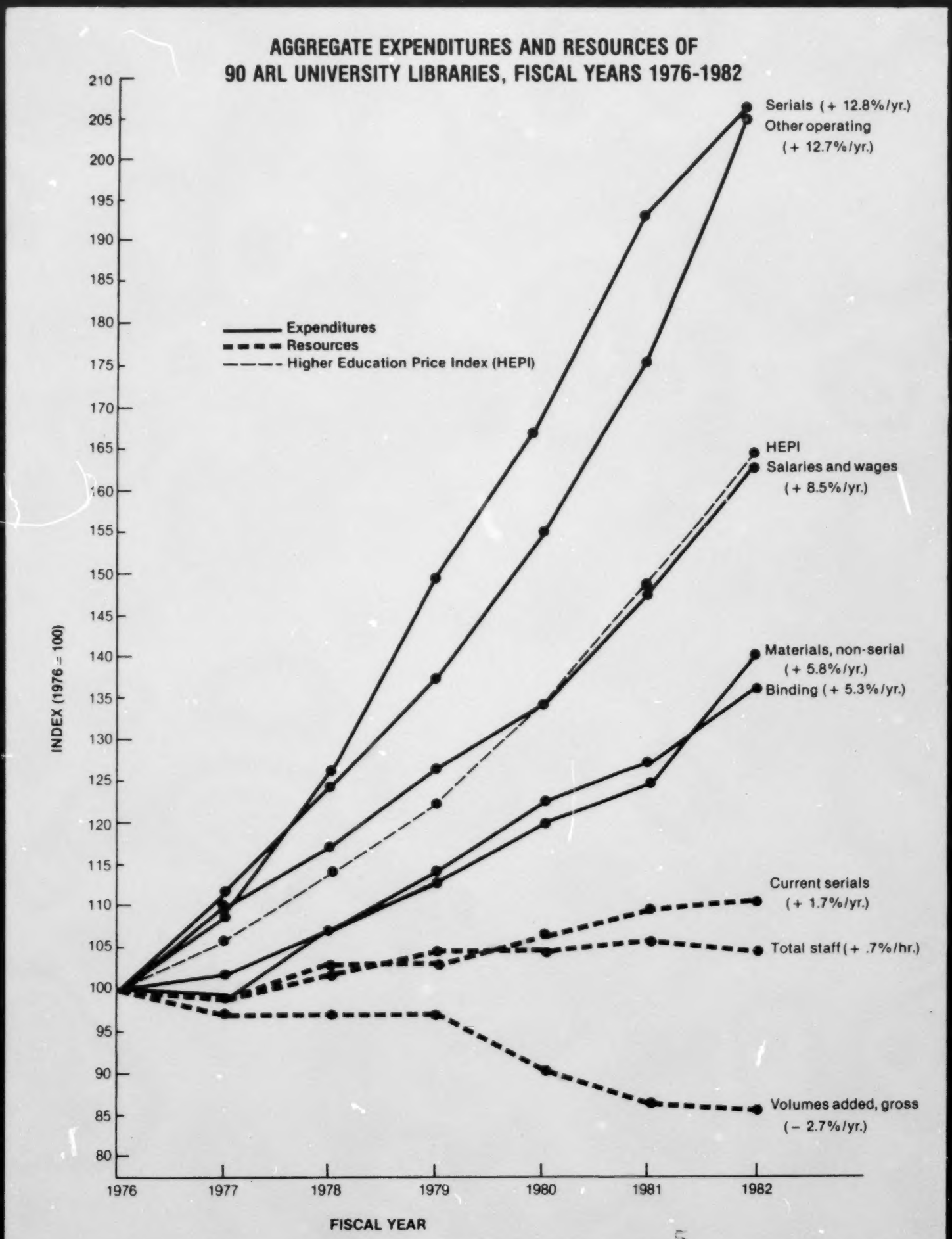
Z675.U5A78 027.773 77-647280
MARC-S

Library of Congress 77

Printed in the United States of America

TABLE OF CONTENTS

		Page
I.	Introduction	5
II.	Guide to Library Code Numbers	7a
III.	ARL Library Data Table	8
	Totals	18
IV.	Analysis of Selected Variables	20
V.	Analysis of Microform Holdings	21
VI.	Ph.D. and Enrollment Statistics	24
VII.	The ARL Library Index	27
VIII.	Summary of Rank Order Tables of University Libraries	30
IX.	Rank Order Tables of University Libraries	
	1 - Volumes in Library	33
	2 - Volumes Added (Gross)	34
	3 - Microform Holdings	35
	4 - Current Serials	36
	5 - Professional Staff (FTE)	37
	6 - Nonprofessional Staff (FTE)	38
	7 - Total Staff (FTE)	39
	8 - Materials Expenditures	40
	9 - Materials and Binding Expenditures	41
	10 - Salaries and Wages Expenditures	42
	11 - Total Operating Expenditures	43
	12 - Total Items Loaned	44
	13 - Total Items Borrowed	45
	14 - Current Serials Expenditures	46
X.	ARL Statistics Questionnaire, 1981-82	47
XI.	Footnotes to ARL Statistics 1981-82	53
XII.	ARL Statistical Compilations	72


AGGREGATE EXPENDITURES AND RESOURCES OF
90 ARL UNIVERSITY LIBRARIES, FISCAL YEARS 1976-1982
INDEX (1976 = 100)
FISCAL YEAR
Expenditures
Resources
Higher Education Price Index (HEPI)
Serials (+ 12.8%/yr.)
Other operating
(+ 12.7%/yr.)
HEPI
Salaries and wages
(+ 8.5%/yr.)
Materials, non-serial
(+ 5.8%/yr.)
Binding (+ 5.3%/yr.)
Current serials
(+ 1.7%/yr.)
Total staff (+ .7%/hr.)
Volumes added, gross
(– 2.7%/yr.)

INTRODUCTION

The 1981-82 ARL Statistics presents data compiled from the 113 research libraries that were members of the Association during the 1981-82 academic year. Of these, 101 are university libraries; the remaining 12 represent a mixture of public, governmental, and private research collections. A complete listing of ARL member libraries is provided in the "Guide to Library Code Numbers," (p. 7a).

The tables presented in the Statistics provide a description of research library resources, staffing, expenditures, and interlibrary loan activity in fiscal 1982. To examine changes in these measures over time, an analysis was performed on data for the fiscal years 1975-76 through 1981-82 from 90 ARL university libraries.[1] Results of the analysis indicate that trends observed in previous years continue. Total expenditures of these libraries have increased at an average rate of 9.0% per year since 1976. Expenditures for salaries and wages have kept pace with the Higher Education Price Index (HEPI)[2] while the aggregate staff size has remained relatively stable. The growth rate of these 90 libraries, as measured by the total number of volumes held, has averaged 3.1% per year. And, although expenditures for materials have risen an average of 9.2% per year, the number of serials subscriptions has increased only slightly (1.7% per year) and the number of volumes added each year has continued to decrease (2.7% per year).

The graph on the opposite page displays aggregate figures, converted to index numbers, for the expenditures of these 90 ARL university libraries, together with selected measures of the level of resources maintained: volumes added, serials subscriptions, and total staff. By far, the largest increases in the expenditures of these 90 libraries over the six year period have been for serials and for operations (exclusive of personnel, library materials, and day-to-day building maintenance); outlays for these two budget components have more than doubled since 1976. The rise in spending for serials is easy to account for, since price indexes demonstrate that price increases for periodical subscriptions have exceeded the rate of inflation for some years. (For example, journal prices were up by 14.5% in 1982,[3] while the Consumer Price Index rose 8.4% between January 1981 and January 1982.) It is more difficult to interpret the sharply rising costs of operations, since this category of expenditures has not been clearly defined in the ARL Statistics. In some libraries, capital outlays for automation are included; in others they are not. Some library budgets are charged for use of a central university computer; arrangements vary in other libraries. In general, supplies, equipment, contracted services, network charges, travel funds, telecommunications, postage, and a variety of other operating expenses are included, and more detailed data will be needed before the trend toward greatly increased operating expenditures can be explained fully for research libraries as a group.

A comparison of the index figures shown on the graph for fiscal 1981 with those for 1982 suggests possible shifts in some trends. While such fluctuations mean little over the period of a single year, they merit watching in future years. The most notable change in 1982 is the smaller rise in serials expenditures—7.0% in 1982 compared to an average of 14.0% per year for the preceding five years—and the concomitant steeper increase in expenditures for other materials—up 12.8% in 1982 compared to an average increase of 4.4% per year for the preceding five years. This apparent shift in materials allocations held true in a majority of the individual libraries as well as in the aggregate: 64 of the 90 libraries increased their serials expenditures less in fiscal 1982 than they had in the

preceding year, and 52 of the libraries showed a larger increase in outlays for non-serials. However, the impact of this change is slight over only one year: in fiscal 1981 outlays for serials were 58% of materials expenditures as measured by the median percentage in the 90 libraries; in 1982 the median percentage was 57%.

Another apparent, and possibly related, change is the slowing decrease in the gross number of volumes added each year. The total number of volumes added in the 90 libraries fell 1.2% in 1982, as compared to a drop of 5.0% in 1981 and 7.1% in 1980. However, since this value generally measures volumes added to the shelves (i.e. cataloged) rather than new acquisitions, the change may represent special cataloging or accessioning projects rather than new purchases.

The overall level of interlibrary loan activity in the 90 libraries was also examined. (Interlibrary loan figures are not displayed on the graph.) The aggregate figures show a small but steady increase in the number of items borrowed: an average increase of 3.0% per year, with the 1982 total 19.5% larger than the number of items borrowed in fiscal 1976. This trend is consistent with reports in the library literature on the growth of network interlibrary loan systems and heightened interest in resource sharing in recent years. Lending activity, however, has not increased over the six years. The total number of items loaned by the 90 libraries was 2.0% less in fiscal 1982 than in 1976, decreasing an average of 0.3% each year. The median ratio of items loaned to items borrowed by the libraries has remained stable during the same time period—it was 2.49:1 in fiscal 1976 and 2.50:1 in fiscal 1982.

Those using the ARL Statistics to compare individual institutions will need to consult the symbols indicated in the "ARL Library Data Table" and the "Footnotes." While definitions used in the Statistics questionnaire are aimed at achieving consistency, a number of variant reporting practices do exist among ARL libraries. For example, while the majority of ARL libraries include government documents in their count of serials subscriptions, about one-third do not. Some ARL libraries catalog government documents and report them in their volume count; others do not. Symbols are used to indicate which ARL libraries include law and medical libraries in their reports. Separate counts of the holdings of law school libraries are published each year in the spring issue of Law Library Journal. Similar statistics for U.S. and Canadian medical school libraries are published annually by the Association of Academic Health Sciences Library Directors. To aid comparability, expenditures of Canadian libraries are expressed in U.S. dollars in the ARL Statistics; the exchange rate used for 1981-82 is 1.2143 Canadian dollars to one U.S. dollar.[4]

The rank order tables and index scores presented in this publication are in no way intended to imply qualitative evaluations of the institutions described. In comparing any individual library to ARL medians or to other ARL members, evaluations must always be made within the context of local goals and characteristics.

Carol A. Mandel
ARL Associate Executive Director
December 16, 1982

References:

1. Data analysis performed by Kendon Stubbs. Libraries included are all those that have been ARL members since 1975-76 and which lack no more than one data value for the years covered. Figures used in this analysis include all reported errata and Canadian expenditures as converted to U.S. dollars using the rate appropriate for each year.

2. For a description of the HEPI see Higher Education Prices and Price Indexes: 1982 Update (Washington, D.C.: Research Associates, 1982). The observed relationship between the HEPI and library salary expenditures is not surprising since the HEPI is dominated by the trend in salaries for faculty and other academic personnel.

3. Norman B. Brown and Jane Phillips, "Price Indexes for 1982, U.S. Periodicals and Serial Services," Library Journal 107 (1982): 1379-82.

4. The rate used is the average monthly noon exchange rate published in the Bank of Canada Review for the period July 1981-June 1982. Expenditures as reported in Canadian dollars are given in the "Footnotes" to the ARL Statistics.

ARL Library Data Table

LIBRARY CODE NO.	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
1+GLM	1,473,135	43,601	42,582	1,000,071	12,729	3,503	2,690	6,193	1,624	1,840	3,464
2+GLM	2,231,193	87,932	84,737	1,542,285	14,594	3,619	6,091	9,710	1,907	3,667	5,574
3 +LM	2,741,442	107,785	102,401	2,268,097	31,797	10,052	19,673	29,725	3,329	3,238	6,567
4	1,597,140	85,405	70,119	1,379,146	19,375	4,713	9,617	14,330	6,175	5,555	11,730
5 +LM	1,395,964	59,367	48,621	1,756,095	24,908	3,112	4,342	7,454	2,909	4,783	7,692
6 +	1,574,100	53,223	50,593	948,059	16,707	2,650	1,960	4,610	3,010	2,556	5,566
7 +LM	2,307,541	95,910	90,520	2,644,514	32,213	10,280	10,817	21,097	2,544	3,573	6,117
8 +*	1,804,982	43,265	41,603	721,772	14,251	1,770	3,023	4,793	1,995	1,156	3,151
9 L	6,117,424	209,264	189,651	2,026,087	102,265	16,906	18,807	35,713	9,172	4,046	13,218
10 *LM	1,753,213	73,763	71,668	1,794,921	45,207	7,844	21,790	29,634	2,843	2,203	5,046
11 +M	1,023,518	40,456	40,139	1,067,243	14,228	9,255	6,302	15,557	3,478	4,449	7,927
12 +LM	4,882,164	129,933	125,319	2,315,981	69,548	10,919	33,531	44,450	6,951	1,932	8,883
13 +	1,075,121	42,925	41,944	865,700	13,977	2,832	2,483	5,315	3,183	4,335	7,518
14 +M	1,507,875	59,955	48,270	877,114	27,904	5,852	10,812	16,664	3,842	2,606	6,448
15 +*	1,473,308	59,615	56,641	1,665,110	19,275	2,513	15,951	18,464	5,623	4,340	9,963
16+GLM	1,410,669	22,590	18,231	449,025	13,404	17,850	31,156	49,006	3,017	3,128	6,145
17 +LM	4,565,591	132,269	124,279	863,946	47,419	4,629	24,092	28,721	2,710	813	3,523
18+GLM	1,330,758	56,729	52,201	1,472,018	18,229	N/A	N/A	19,618	N/A	N/A	7,623
19 L	1,927,699	43,941	39,492	2,225,547	19,441	3,102	6,918	10,020	3,601	2,615	6,216
20 +	1,315,520	45,972	37,358	707,608	16,029	3,374	6,953	10,327	2,925	3,121	6,046
21 +LM	5,192,448	99,053	81,691	2,458,565	59,604	3,247	10,524	13,771	N/A	N/A	4,521
22+GLM	1,746,946	58,366	57,438	1,536,205	16,276	5,521	13,007	18,528	3,293	4,248	7,541
23 +L	4,401,660	109,564	79,696	2,704,541	54,643	7,153	11,471	18,624	2,154	2,981	5,135
24 +M	1,475,654	42,756	41,716	1,239,337	18,098	3,066	3,516	6,582	2,572	2,960	5,532
25+GLM	3,084,412	79,464	75,062	854,961	29,126	5,718	16,124	21,842	1,660	1,517	3,177

B - INCLUDES BRANCH CAMPUSES
G - GOVERNMENT DOCUMENTS NOT INCLUDED IN SERIALS COUNT
L - INCLUDES LAW LIBRARY
M - INCLUDES MEDICAL LIBRARY
N/A - NOT AVAILABLE
+ - SEE FOOTNOTES
* - BIBLIOGRAPHIC COUNT

ARL Library Data Table

	EXPENDITURES							PERSONNEL (FTE)			
LIBRARY CODE NO.	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
1	1,609,716	686,661	67,000	1,676,716	1,573,196	720,496	3,970,408	46	63	58	167
2	2,879,623	1,122,889	141,555	3,021,178	5,631,029	708,112	9,360,319	78	285	26	389
3	3,996,488	1,566,008	258,955	4,255,443	4,494,089	1,217,064	9,966,596	88	188	89	365
4	2,384,753	1,084,244	182,296	2,567,049	2,889,674	344,548	5,801,271	54	147	60	261
5	2,249,999	1,155,762	103,445	2,353,444	2,843,436	835,437	6,032,317	63	133	62	258
6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	71	61	175	307
7	3,113,900	N/A	143,624	3,257,524	7,330,954	840,249	11,428,727	111	320	49	480
8	1,590,306	776,239	110,072	1,700,378	2,605,305	985,071	5,290,754	67	99	48	214
9	4,169,260	1,997,808	567,510	4,736,770	11,670,545	1,932,013	18,339,328	146	305	197	648
10	3,002,697	1,839,808	270,023	3,272,720	4,946,113	774,195	8,993,028	70	176	54	300
11	1,920,818	1,084,032	197,689	2,118,507	3,191,991	662,071	5,972,569	47	95	29	171
12	4,195,060	2,027,167	445,516	4,640,576	10,779,342	3,265,910	18,685,828	149	240	156	545
13	1,517,408	647,806	134,894	1,652,302	2,628,958	331,465	4,612,725	32	93	22	147
14	2,248,442	761,924	208,650	2,457,092	4,264,153	686,359	7,407,604	55	156	60	271
15	2,383,000	1,049,160	200,000	2,583,000	5,192,000	785,000	8,560,000	54	139	60	253
16	1,140,941	996,746	74,021	1,214,962	2,132,216	433,981	3,781,159	65	81	34	180
17	2,004,950	1,220,886	218,275	2,223,225	4,380,778	1,215,808	7,819,811	74	156	73	303
18	1,815,229	1,176,963	106,637	1,921,866	3,597,393	565,523	6,084,782	72	120	71	263
19	1,730,097	1,032,051	114,980	1,845,077	2,739,438	285,691	4,870,206	43	101	36	180
20	1,166,275	700,000	87,371	1,253,646	2,202,154	395,176	3,850,976	42	75	30	147
21	2,672,123	1,757,014	272,867	2,944,990	7,033,156	976,687	10,954,833	137	280	119	536
22	1,496,816	1,261,569	28,062	1,524,878	2,842,162	312,463	4,679,503	50	95	59	204
23	3,157,799	N/A	197,270	3,355,069	5,928,458	1,441,742	10,725,269	140	258	65	463
24	1,376,022	910,942	49,745	1,425,767	1,902,232	564,029	3,892,028	37	103	29	169
25	2,533,703	1,721,153	149,434	2,683,137	4,098,134	1,270,317	8,051,588	83	162	55	300

ARL Library Data Table

LIBRARY CODE NO.	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
26 +LM	1,736,191	50,543	46,642	1,081,159	15,737	4,383	10,752	15,135	1,814	2,373	4,187
27 +LM	2,285,945	57,737	54,436	2,322,671	31,477	2,832	18,227	21,059	2,235	7,803	10,038
28 *+L	1,413,613	43,945	42,874	2,105,272	15,541	9,976	6,129	16,105	2,419	1,102	3,521
29+GLM	1,343,971	57,336	55,956	1,059,141	17,761	2,754	2,005	4,759	1,155	1,780	2,935
30 +L	2,141,617	79,430	79,118	2,433,528	43,568	9,119	15,019	24,138	3,816	2,209	6,025
31 +*G	1,340,750	102,495	102,175	741,960	9,104	635	2,044	2,679	1,604	2,781	4,385
32 +LM	10,409,228	185,775	148,657	2,643,772	97,000	5,876	32,630	38,506	2,663	2,422	5,085
33 +G	1,852,813	66,478	66,478	1,452,743	32,350	1,929	5,351	7,280	1,176	1,855	3,031
34 +GL	1,311,174	54,944	51,037	1,496,194	14,995	2,849	3,784	6,633	1,835	2,269	4,104
35 +LM	1,242,553	63,815	63,359	1,112,789	21,402	2,072	205	2,277	1,358	14	1,372
36 GL	6,242,615	172,676	151,490	1,844,752	93,913	77,802	40,487	118,289	26,156	5,392	31,548
37 +L	3,993,390	162,884	137,383	1,138,129	27,589	15,358	14,339	29,697	5,056	1,990	7,046
38 +LM	2,412,577	64,437	56,481	1,885,278	29,891	6,314	22,785	29,099	2,479	2,500	4,979
39	1,447,350	50,271	45,830	1,297,561	20,054	4,990	9,421	14,411	2,029	1,863	3,892
40 +GM	2,369,926	36,101	25,999	1,242,202	19,541	4,690	8,023	12,713	5,818	8,098	13,916
41+BGLM	2,251,917	65,125	62,565	1,161,133	27,812	16,834	12,477	29,311	8,190	7,020	15,210
42 +	1,437,457	43,254	40,542	918,229	8,706	6,863	2,097	8,960	3,501	2,859	6,360
43 LM	1,854,088	43,573	37,306	2,403,624	34,624	5,578	10,255	15,833	3,115	6,013	9,128
44 +L	1,952,245	70,219	67,589	1,458,558	21,524	5,778	2,712	8,490	2,388	2,431	4,819
45+*LM	2,127,348	70,939	58,781	529,750	14,802	7,569	20,106	27,675	4,961	2,130	7,091
46 +M	1,233,720	52,725	47,033	894,344	13,016	3,052	3,167	6,219	2,634	3,319	5,953
47+GLM	1,251,077	44,626	34,024	592,631	12,174	6,654	3,849	10,503	1,719	4,238	5,957
48 +G	1,516,990	62,969	44,959	1,591,938	19,632	6,807	5,896	12,703	1,914	621	2,535
49 +	1,870,049	69,400	66,402	1,074,215	12,510	3,016	5,884	8,900	2,993	3,189	6,182
50	1,869,173	55,643	24,722	1,163,050	19,843	3,413	15,282	18,695	1,739	2,471	4,210

B - INCLUDES BRANCH CAMPUSES
G - GOVERNMENT DOCUMENTS NOT INCLUDED IN SERIALS COUNT
L - INCLUDES LAW LIBRARY
M - INCLUDES MEDICAL LIBRARY
N/A - NOT AVAILABLE
+ - SEE FOOTNOTES
* - BIBLIOGRAPHIC COUNT

ARL Library Data Table

	EXPENDITURES							PERSONNEL (FTE)			
LIBRARY CODE NO.	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
26	1,926,858	923,375	116,600	2,043,458	2,410,377	587,511	5,041,346	59	105	37	201
27	2,446,470	1,364,714	167,653	2,614,123	4,254,577	1,011,613	7,880,313	82	170	96	348
28	1,636,511	1,003,106	119,052	1,755,563	2,638,899	415,214	4,809,676	57	92	57	206
29	1,751,429	876,316	95,842	1,847,271	2,846,335	785,590	5,479,196	61	90	73	224
30	2,590,782	1,594,451	174,821	2,765,603	3,254,741	424,584	6,444,928	74	157	52	283
31	1,363,000	601,000	48,000	1,411,000	2,244,000	239,000	3,894,000	36	120	14	170
32	5,782,416	2,706,074	533,970	6,316,386	12,930,744	1,835,587	21,082,717	279	523	129	931
33	2,053,661	1,243,707	357,258	2,410,919	3,447,575	281,925	6,140,419	62	98	67	227
34	1,615,209	1,015,658	114,689	1,729,898	2,606,102	482,244	4,818,244	54	110	54	218
35	3,356,216	1,310,049	78,300	3,434,516	6,084,260	1,432,101	10,950,877	96	146	25	267
36	4,019,841	1,922,851	92,641	4,112,482	6,666,517	1,032,225	11,811,224	112	296	109	517
37	2,722,608	1,199,241	169,341	2,891,949	5,360,880	735,785	8,988,614	104	203	149	456
38	2,794,902	1,472,784	153,196	2,948,098	3,299,971	297,844	6,545,913	72	97	57	226
39	1,944,711	1,248,569	127,329	2,072,040	2,536,389	286,144	4,894,573	46	105	46	197
40	1,988,897	1,167,797	64,189	2,053,086	2,856,873	1,401,453	6,311,412	63	147	34	244
41	2,603,008	1,360,570	121,313	2,724,321	3,578,659	823,967	7,126,947	80	132	62	274
42	970,715	534,156	60,968	1,031,683	2,163,198	729,325	3,924,206	32	83	42	157
43	2,058,863	1,109,648	95,995	2,154,858	2,801,186	507,305	5,463,349	64	114	52	230
44	2,968,631	1,079,310	187,584	3,156,215	2,910,595	458,844	6,525,654	60	100	61	221
45	1,684,986	965,250	118,705	1,803,691	5,526,192	458,084	7,787,967	79	235	27	341
46	1,992,497	840,302	54,571	2,047,068	2,549,673	557,408	5,154,149	38	147	17	202
47	1,291,677	867,650	71,554	1,363,231	3,394,897	291,058	5,049,186	63	161	21	245
48	2,199,359	1,276,618	188,001	2,387,360	3,951,840	383,741	6,722,941	82	151	85	318
49	1,501,324	805,916	59,999	1,561,323	2,774,418	243,000	4,578,741	56	112	45	213
50	1,598,201	1,054,239	95,518	1,693,719	3,417,969	637,163	5,748,851	76	152	35	263

ARL Library Data Table

LIBRARY CODE NO.	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
51 +LM	1,411,297	38,661	31,847	1,625,658	17,283	3,719	7,338	11,057	2,279	3,948	6,227
52+*LM	5,481,172	128,911	105,482	2,183,427	60,688	2,946	3,702	6,648	3,169	2,644	5,813
53 +	2,807,156	105,928	92,929	1,722,693	20,301	1,496	5,581	7,077	1,971	2,403	4,374
54 +LM	3,945,397	82,937	72,304	1,488,453	47,032	24,670	110,556	135,226	8,195	7,130	15,325
55 +LM	2,117,156	56,635	48,368	2,483,735	21,588	9,605	11,329	20,934	3,268	2,895	6,163
56 LG	1,602,671	57,014	55,459	1,432,132	20,859	4,136	6,220	10,356	2,126	2,183	4,309
57	1,086,529	46,531	42,593	1,836,899	15,878	3,712	1,423	5,135	2,222	1,352	3,574
58 LM	2,698,871	89,290	85,140	1,768,135	27,925	3,429	5,254	8,683	1,692	4,774	6,466
59 +LM	2,839,858	123,940	117,059	1,724,821	39,593	7,913	12,105	20,018	1,975	2,345	4,320
60+BLM	2,889,402	75,707	66,963	1,157,076	32,606	4,167	6,227	10,394	6,274	2,263	8,537
61 +L	1,499,252	40,650	35,583	762,697	10,352	2,052	2,395	4,447	1,005	1,273	2,278
62 +LM	3,685,917	84,726	70,809	1,784,451	28,591	8,717	18,936	27,653	4,147	2,788	6,935
63 GLM	1,903,996	50,909	45,338	1,388,339	16,957	5,200	7,520	12,720	4,875	6,814	11,689
64 +	1,307,732	33,706	29,903	1,205,434	14,196	3,695	5,627	9,522	3,053	3,110	6,163
65 +L	1,540,340	38,931	37,936	945,594	20,000	4,491	3,807	8,298	3,028	1,603	4,631
66 LM	3,054,234	71,135	53,584	1,439,109	30,971	4,173	3,669	7,842	4,174	3,242	7,416
67 +BG	2,272,980	82,607	65,882	2,382,598	22,735	5,790	7,736	13,526	3,642	3,140	6,782
68 +LM	2,386,504	70,833	47,262	1,566,451	17,702	8,017	22,462	30,479	3,224	2,617	5,841
69 +	3,430,242	72,843	66,960	1,541,317	30,927	N/A	N/A	8,072	N/A	N/A	4,033
70 +G	1,503,098	44,965	33,534	1,267,441	17,755	2,346	7,941	10,287	2,049	3,047	5,096
71+GLM	1,449,059	39,396	38,335	889,687	13,215	N/A	N/A	4,013	N/A	N/A	6,022
72 +*	1,109,797	38,655	37,983	1,352,501	11,675	6,657	9,292	15,949	635	591	1,226
73 +GM	1,871,675	42,058	37,588	1,649,412	14,953	N/A	N/A	N/A	N/A	N/A	N/A
74+BGM	2,024,215	59,730	53,188	1,515,381	21,760	5,434	20,099	25,533	2,449	3,472	5,921
75+GLM	1,083,069	44,921	44,921	1,235,403	10,184	1,134	2,687	3,821	1,005	2,781	3,786

B - INCLUDES BRANCH CAMPUSES
G - GOVERNMENT DOCUMENTS NOT INCLUDED IN SERIALS COUNT
L - INCLUDES LAW LIBRARY
M - INCLUDES MEDICAL LIBRARY
N/A - NOT AVAILABLE
+ - SEE FOOTNOTES
* - BIBLIOGRAPHIC COUNT

ARL Library Data Table

	EXPENDITURES							PERSONNEL (FTE)			
LIBRARY CODE NO.	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
51	1,598,648	947,215	72,303	1,670,951	2,699,647	530,865	4,901,463	54	121	62	237
52	3,677,902	2,089,926	299,263	3,977,165	7,516,157	1,295,190	12,788,512	141	309	133	583
53	2,296,850	1,073,074	161,447	2,458,297	3,917,646	796,436	7,172,379	69	120	99	288
54	2,781,213	1,662,301	245,516	3,026,729	6,875,630	1,159,057	11,061,416	123	177	112	412
55	1,873,419	1,215,106	147,682	2,021,101	2,338,918	426,243	4,786,262	52	106	39	197
56	1,757,449	1,172,926	92,324	1,849,773	2,312,896	561,133	4,723,802	54	108	37	199
57	1,374,232	671,646	90,358	1,464,590	2,246,383	367,846	4,078,819	45	100	62	207
58	~~2,939,301~~ 2,545,301	1,462,480	163,722	~~2,509,023~~ 2,509,023	4,840,161	1,120,700	~~8,469,485~~ 8,469,485	92	182	65	339
59	3,520,990	1,405,861	257,845	3,778,835	4,945,302	875,771	9,599,908	105	180	64	349
60	2,244,989	1,386,346	122,326	2,367,315	4,780,315	683,189	7,830,819	99	154	93	346
61	1,307,972	638,485	79,438	1,387,410	1,790,098	252,044	3,429,552	39	92	11	142
62	2,756,128	1,586,824	137,572	2,893,700	5,466,618	1,416,251	9,776,569	100	207	134	441
63	1,823,880	1,097,279	69,145	1,893,025	2,383,598	572,916	4,849,539	50	84	59	193
64	1,272,485	708,492	72,638	1,345,123	1,455,172	321,512	3,121,807	38	53	51	142
65	1,762,787	882,020	62,815	1,825,602	2,186,581	982,752	4,994,935	46	82	61	189
66	1,915,557	1,084,943	359,551	2,275,108	4,750,748	906,927	7,932,783	92	152	74	318
67	2,607,972	1,388,343	161,499	2,769,471	5,593,252	1,054,616	9,417,339	97	255	55	407
68	1,949,305	708,134	173,461	2,122,766	3,941,781	431,738	6,496,285	81	164	73	318
69	2,898,532	1,367,985	183,300	3,081,832	5,377,077	722,282	9,181,191	95	228	57	380
70	1,766,215	1,213,576	99,880	1,866,095	3,204,861	496,474	5,567,430	42	182	50	274
71	1,474,236	693,352	98,949	1,573,185	2,666,019	413,762	4,652,966	40	164	32	236
72	1,390,502	842,241	46,201	1,436,703	1,472,297	498,214	3,407,214	37	72	17	116
73	1,157,223	669,950	100,714	1,257,937	2,462,488	373,957	4,094,382	52	97	62	211
74	2,466,182	1,760,486	209,031	2,675,213	5,859,020	759,385	9,293,618	96	229	59	384
75	1,292,216	769,550	43,566	1,335,782	2,171,192	223,691	3,730,665	42	114	18	174

ARL Library Data Table

LIBRARY CODE NO.	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
76 LM	1,949,985	57,675	55,721	1,896,021	16,203	8,867	5,255	14,122	1,732	2,180	3,912
77 +LM	2,170,774	76,293	65,385	1,378,260	33,021	1,807	3,466	5,273	814	926	1,740
78 +L	1,716,213	50,605	47,678	2,101,468	20,364	15,894	11,810	27,704	1,893	2,150	4,043
79 +LM	4,889,448	137,403	117,805	2,405,773	46,455	9,232	13,972	23,204	3,438	2,460	5,898
80 +	1,027,943	50,117	47,479	1,836,370	15,436	5,951	5,505	11,456	4,036	4,088	8,124
81 +LM	2,137,941	165,286	157,214	2,280,677	22,562	4,054	15,761	19,815	3,065	3,766	6,831
82 +*M	1,321,278	49,650	48,495	1,811,494	18,579	3,838	8,993	12,831	2,320	2,145	4,465
83 +*L	2,010,009	71,532	57,415	2,069,351	20,430	2,096	1,832	3,928	2,393	1,301	3,694
84 +LM	1,683,308	49,478	42,251	994,483	14,972	3,358	4,104	7,462	1,856	1,967	3,823
85 +G	1,421,342	33,860	29,333	1,362,931	24,320	8,860	5,512	14,372	2,471	2,218	4,689
86 +L	4,846,764	159,155	144,642	2,563,826	60,000	7,878	4,725	12,603	5,112	2,170	7,282
87 +	1,403,513	46,537	45,293	2,314,505	15,223	5,549	19,028	24,577	3,269	3,491	6,760
88+GLM	4,789,740	199,755	165,860	1,825,691	44,007	8,040	6,608	14,648	3,386	4,737	8,123
89 +LM	1,427,366	28,888	28,021	1,290,108	12,518	N/A	N/A	9,773	N/A	N/A	5,739
90 G	2,015,662	32,253	25,662	1,819,338	16,125	4,239	3,197	7,436	3,618	2,728	6,346
91 +LM	1,483,428	41,477	34,396	991,973	16,315	10,586	5,245	15,831	4,185	1,944	6,129
92 GLM	2,466,753	90,164	75,168	2,760,068	25,003	6,379	2,412	8,791	1,919	948	2,867
93	1,334,979	52,965	49,364	3,097,757	21,635	4,579	8,437	13,016	1,713	1,687	3,400
94 +LM	4,084,741	133,885	69,737	3,560,663	40,698	18,376	95,983	114,359	2,680	1,319	3,999
95 +G	1,304,500	40,821	38,521	1,866,454	30,850	5,226	4,509	9,735	1,241	2,022	3,263
96 +LM	1,883,737	47,950	42,037	1,159,759	15,558	3,899	9,820	13,719	2,539	3,380	5,919
97 +GLM	1,904,207	34,563	25,518	1,161,562	13,525	3,261	23,127	26,388	818	1,597	2,415
98 +LM	1,403,508	50,592	48,206	1,293,794	21,000	4,856	5,501	10,357	1,938	2,159	4,097
99 +LM	4,184,038	113,953	104,191	1,970,582	53,836	35,469	60,028	95,497	9,547	8,179	17,726
100 +B GLM *	7,725,424	161,097	146,303	1,540,032	57,679	N/A	N/A	13,428	N/A	N/A	5,279

B - INCLUDES BRANCH CAMPUSES
G - GOVERNMENT DOCUMENTS NOT INCLUDED IN SERIALS COUNT
L - INCLUDES LAW LIBRARY
M - INCLUDES MEDICAL LIBRARY
N/A - NOT AVAILABLE
+ - SEE FOOTNOTES
* - BIBLIOGRAPHIC COUNT

ARL Library Data Table

	EXPENDITURES							PERSONNEL (FTE)			
LIBRARY CODE NO.	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
76	1,711,552	818,583	127,723	1,839,275	2,412,976	237,905	4,490,156	61	107	30	198
77	2,525,300	1,556,738	123,995	2,649,295	4,199,694	935,433	7,784,422	87	140	96	323
78	1,878,751	1,232,382	102,772	1,981,523	3,530,919	670,911	6,183,353	65	114	88	267
79	4,732,935	2,150,982	264,398	4,988,333	9,875,649	1,767,434	16,631,416	145	344	61	550
80	1,454,997	1,068,286	51,000	1,505,997	2,122,035	418,891	4,046,923	49	101	24	174
81	2,203,365	1,461,311	146,941	2,350,306	3,615,521	636,032	6,601,859	93	135	55	283
82	1,727,393	1,105,350	77,635	1,805,028	2,497,453	375,380	4,677,861	48	116	27	191
83	1,600,356	1,024,228	76,829	1,677,185	2,722,169	695,182	5,094,536	62	139	43	244
84	1,569,268	1,028,547	185,153	1,754,421	3,304,504	271,605	5,330,530	72	115	54	241
85	1,452,034	1,014,114	110,254	1,562,288	2,382,739	306,509	4,251,536	51	132	37	220
86	4,847,047	1,835,381	142,012	4,989,059	7,587,294	1,302,798	13,879,151	133	360	81	574
87	1,983,573	1,132,701	116,684	2,100,257	2,609,301	521,985	5,231,543	49	124	75	248
88	4,037,714	1,842,272	184,012	4,221,726	10,740,980	1,184,857	16,147,563	162	500	88	750
89	1,368,797	963,826	89,387	1,458,184	1,972,873	394,580	3,825,637	47	89	45	181
90	1,545,081	700,960	110,115	1,655,196	2,427,000	502,590	4,584,786	41	97	72	210
91	1,617,705	1,087,151	93,991	1,711,696	2,351,223	1,263,898	5,326,817	53	105	66	224
92	2,693,004	1,277,828	159,450	2,852,454	4,415,944	831,716	8,100,114	86	197	50	333
93	2,117,884	1,258,817	143,217	2,261,101	2,605,973	352,547	5,219,621	49	101	37	187
94	2,750,266	1,907,918	205,184	2,955,450	6,008,284	444,552	9,408,286	115	228	106	449
95	1,548,782	1,099,534	108,141	1,656,923	2,754,484	663,580	5,074,987	42	92	64	198
96	1,829,571	1,164,624	109,184	1,938,755	2,566,808	1,356,823	5,862,386	66	117	56	239
97	1,335,424	803,626	59,113	1,394,537	3,669,072	999,224	6,062,833	57	97	53	207
98	2,002,798	1,091,168	93,173	2,095,971	3,898,667	649,187	6,643,825	45	208	57	310
99	3,352,060	1,754,365	185,397	3,537,457	6,815,220	1,524,336	11,877,013	135	236	133	504
100	3,425,885	1,646,078	229,684	3,655,569	8,351,627	2,200,844	14,208,040	179	386	50	615

ARL Library Data Table

LIBRARY CODE NO.	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
101 +BL	1,379,915	55,225	50,955	1,206,245	20,017	3,774	3,844	7,618	1,888	1,226	3,114
102 +G	4,950,123	95,610	71,928	2,275,836	11,286	11,261	18,260	29,521	118	0	118
103 +	3,426,410	16,043	16,043	916,006	27,739	25,890	N/A	25,890	0	0	0
104 +	658,071	11,244	11,244	432,563	7,439	28,524	20,881	49,405	316	0	316
105 +L	19,721,066	187,664	142,732	5,554,370	150,000	91,982	16,790	108,772	981	N/A	N/A
106 +	538,007	21,506	21,416	161,770	15,605	11,261	61,601	72,862	2	31	33
107 +	1,763,846	26,714	26,714	500,500	25,000	1,647	22,621	24,268	N/A	N/A	12,219
108 +	896,406	40,175	39,639	1,069,368	68,381	39,999	15,821	55,820	999	479	1,478
109 +	1,627,320	44,776	44,160	131,261	23,337	14,437	161,017	175,454	14	22	36
110 +*	1,363,152	9,016	8,868	225,496	1,459	0	361	361	48	2	50
111 +	5,425,394	153,749	136,493	1,846,198	181,442	443	5,057	5,500	991	203	1,194
112 +GLM	1,831,473	47,972	47,882	2,271,461	27,275	20,551	N/A	20,551	372	710	1,082
113 +	899,404	35,008	23,497	N/A	20,198	5,972	16,866	22,838	22,669	4,697	27,366

B - INCLUDES BRANCH CAMPUSES
G - GOVERNMENT DOCUMENTS NOT INCLUDED IN SERIALS COUNT
L - INCLUDES LAW LIBRARY
M - INCLUDES MEDICAL LIBRARY
N/A - NOT AVAILABLE
+ - SEE FOOTNOTES
* - BIBLIOGRAPHIC COUNT

ARL Library Data Table

	EXPENDITURES							PERSONNEL (FTE)			
LIBRARY CODE NO.	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
101	1,428,184	500,627	74,255	1,502,439	3,107,084	713,692	5,323,215	50	132	43	225
102	2,177,493	N/A	0	2,177,493	6,772,095	2,557,551	11,507,139	155	235	41	431
103	645,872	206,411	0	645,872	752,492	767,712	2,166,076	16	37	8	61
104	387,037	371,366	51,064	438,101	970,761	669,064	2,077,926	12	35	0	47
105	5,330,140	1,947,039	1,136,070	6,466,210	120,322,000	79,556,000	206,344,210	3,853	1,365	0	5,218
106	815,165	742,511	62,166	877,331	617,765	106,927	1,602,023	21	16	17	54
107	927,200	583,700	12,500	939,700	2,967,000	3,127,626	7,034,326	68	80	9	157
108	1,031,742	269,738	15,665	1,047,407	10,315,157	6,364,141	17,726,705	215	319	0	534
109	1,946,000	1,270,000	228,000	2,174,000	5,271,000	6,184,000	13,629,000	152	117	40	309
110	270,671	N/A	34,510	305,181	1,692,775	1,615,366	3,613,322	44	73	0	117
111	N/A	N/A	N/A	N/A	N/A	N/A	N/A	200	620	139	959
112	1,396,000	918,000	72,000	1,468,000	3,003,478	810,447	5,281,925	89	144	0	233
113	554,806	305,326	64,000	618,806	2,171,914	923,691	3,714,411	45	73	1	119

ARL Library Data Table
Totals

COLLECTIONS					INTERLIBRARY LOANS					
					LOANED			BORROWED		
VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
1	2	3	4	5	6	7	8	9	10	11
UNIVERSITY MEDIAN										
1,869,173	57,737	52,201	1,496,194	20,054	4,383	6,220	13,222	2,434	2,388	5,827
UNIVERSITY HIGH										
10,409,228	209,264	189,651	3,560,663	102,265	77,802	110,556	135,226	26,156	8,179	31,548
UNIVERSITY LOW										
1,023,518	22,590	18,231	449,025	8,706	635	205	2,277	635	14	1,226
TOTALS—UNIVERSITY LIBRARIES										
239,285,389	7,363,236	6,503,410	159,936,600	2,708,409	676,390	1,175,156	1,906,450	309,612	277,607	620,436
TOTALS—NON-UNIVERSITY LIBRARIES										
43,100,672	689,477	590,616	15,384,829	559,161	251,967	339,275	591,242	26,510	6,144	43,892
GRAND TOTALS—ALL ARL LIBRARIES										
282,386,061	8,052,713	7,094,026	175,321,429	3,267,570	928,357	1,514,431	2,497,692	336,122	283,751	664,328

ARL Library Data Table
Totals

EXPENDITURES							PERSONNEL (FTE)			
LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
12	13	14	15	16	17	18	19	20	21	22
UNIVERSITY MEDIAN										
1,966,439	1,107,499	118,879	2,098,114	3,277,356	655,629	6,047,575	63	132	57	248
UNIVERSITY HIGH										
5,782,416	2,706,074	567,510	6,316,386	12,930,744	3,265,910	21,082,717	279	523	197	931
UNIVERSITY LOW										
970,715	500,627	28,062	1,031,683	1,455,172	223,691	3,121,807	32	53	11	116
TOTALS—UNIVERSITY LIBRARIES										
224,015,108	117,046,121	14,717,225	238,723,333	405,203,123	76,353,564	720,280,020	7,581	16,013	6,332	29,915
TOTALS—NON-UNIVERSITY LIBRARIES										
15,482,126	6,614,091	1,675,975	17,158,101	154,856,437	102,682,525	274,697,063	4,870	3,114	255	8,239
GRAND TOTALS—ALL ARL LIBRARIES										
239,497,234	123,660,212	16,393,200	255,881,434	560,059,560	179,036,089	994,977,083	12,451	19,127	6,587	38,154

ANALYSIS OF SELECTED VARIABLES OF UNIVERSITY LIBRARIES

The percentages and ratios below are intended to summarize the basic data in the ARL Library Data Tables. The high, median, and low figures indicate the range as well as the midpoint for ARL's 101 university library members.

	Category	High	Median	Low
1.	Professional Staff as percent of Total Staff	36	25	14
2.	Nonprofessional Staff as percent of Total Staff	73	52	19
3.	Student Assistant Staff as percent of Total Staff	57	22	6
4.	Ratio of Professional to Non-professional Staff (excluding student assistants)	1.2:1	0.5:1	0.2:1
5.	Ratio of Items Loaned to Items Borrowed	28.6:1	2.4:1	0.6:1
6.	Materials Expenditures as percent of Total Operating Expenditures	45	31	21
7.	Serials Expenditures as percent of Materials Expenditures	87	56	33
8.	Salary and Wage Expenditures as percent of Total Operating Expenditures	70	55	34
9.	Ratio of Salary and Wage Expenditures to Materials Expenditures	3.3:1	1.7:1	1:1

Median figures are useful indicators when there is wide dispersion within a distribution. Because the mean represents a "balance point," a few very high or low scores may sometimes pull the mean away from the actual point at which values cluster. Medians, on the other hand, are a measure of central tendency, focusing on the midpoint in a distribution, and are thus preferable for describing ARL libraries.

ANALYSIS OF MICROFORM HOLDINGS

INSTITUTION	REELS OF MICROFILM	NUMBER OF MICROCARDS	NUMBER OF MICRO-PRINT SHEETS	NUMBER OF MICROFICHES
Alabama	77,953	149,863	82,264	689,991
Alberta	86,365	154,535	611,911	689,474
Arizona+	83,460	162,588	N/A	2,022,049
Arizona State	69,774	125,668	186,292	997,412
Boston	48,147	27,382	742,266	938,300
Brigham Young	43,797	53,676	188,495	662,091
British Columbia	70,114	111,976	1,112,750	1,349,674
Brown	27,203	42,682	408,256	243,631
Calif., Berkeley	207,591	193,640	140,884	1,483,972
Calif., Davis	61,188	219,037	338,686	1,176,010
Calif., Irvine	38,113	33,069	243,713	752,348
Calif., Los Angeles+	127,126	N/A	N/A	2,188,855
Calif., Riverside+	35,592	N/A	N/A	830,108
Calif., San Diego+	20,103	108,780	N/A	748,231
Calif., Santa Barbara	38,796	95,122	181,369	1,349,823
Case Western Reserve	20,347	75,513	7,020	346,145
Chicago	76,461	15,894	74,471	697,120
Cincinnati	38,364	59,068	171,962	1,202,624
Colorado	42,131	48,108	227,291	1,908,017
Colorado State	22,367	14,758	2,749	667,734
Columbia	134,986	131,976	545,338	1,646,265
Connecticut	42,648	146,880	478,180	868,497
Cornell	105,136	139,693	957,138	1,502,574
Dartmouth	54,183	56,028	167,350	961,776
Duke+	203,546	N/A	N/A	651,415
Emory+	30,041	N/A	N/A	1,051,118
Florida	118,270	191,647	338,652	1,674,102
Florida State	124,977	247,455	495,112	1,237,728
Georgetown	28,773	26,924	300,439	703,005
Georgia	125,305	444,010	500,109	1,364,104
Guelph	42,993	13,265	0	685,702
Harvard	178,692	87,002	797,466	1,580,312
Hawaii	75,348	127,667	253,558	996,170
Houston	24,159	69,329	170,936	1,231,770
Howard+	42,609	219,109	0	851,071
Illinois	163,251	84,640	245,505	1,351,356
Indiana	87,406	114,866	215,403	720,454
Iowa	94,258	114,002	176,303	1,500,715
Iowa State	32,713	6,396	191,789	1,066,663
Johns Hopkins+	50,510	587,021	N/A	604,671
Kansas	53,928	72,544	235,404	799,257
Kent State	N/A	N/A	N/A	N/A
Kentucky	96,548	272,548	430,928	1,603,600
Louisiana State	72,254	164,005	53,363	1,168,936

N/A - Not available
+ - See footnotes

ANALYSIS OF MICROFORM HOLDINGS

INSTITUTION	REELS OF MICROFILM	NUMBER OF MICROCARDS	NUMBER OF MICRO-PRINT SHEETS	NUMBER OF MICROFICHES
McGill+	43,134	163,180	N/A	323,436
McMaster	48,379	176,240	202,852	466,873
Manitoba+	36,468	N/A	N/A	556,163
Maryland+	81,673	N/A	N/A	1,510,265
Massachusetts	88,191	10,852	87,798	887,374
MIT	14,085	137,670	N/A	1,011,295
Miami+	27,414	N/A	N/A	1,598,244
Michigan+	127,091	N/A	N/A	2,056,336
Michigan State+	116,442	1,211,943	394,308	N/A
Minnesota	89,183	104,617	180,302	1,114,351
Missouri	N/A	N/A	N/A	N/A
Nebraska	40,575	36,337	530,753	824,467
New Mexico+	70,920	N/A	224,116	1,541,863
New York	79,367	80,362	385,180	1,223,226
North Carolina	107,373	71,247	620,201	926,000
Northwestern	51,948	112,041	77,487	915,600
Notre Dame+	31,489	N/A	243,233	487,975
Ohio State	384,775	88,826	440,086	870,764
Oklahoma	55,626	121,354	395,427	815,932
Oklahoma State	29,819	70,425	256,767	848,423
Oregon	41,694	96,267	286,814	520,819
Pennsylvania	70,417	45,903	781,471	541,318
Pennsylvania State+	178,609	N/A	309,942	1,894,047
Pittsburgh	72,898	114,867	560,267	818,419
Princeton	90,148	186,935	463,625	800,609
Purdue	29,179	232,648	0	1,005,614
Queen's	N/A	N/A	N/A	N/A
Rice	32,769	137,854	516,025	665,853
Rochester	36,674	171,219	659,495	782,024
Rutgers	95,222	63,779	571,152	785,228
Saskatchewan+	31,088	N/A	N/A	1,204,315
South Carolina	75,077	168,908	542,172	1,109,864
Southern California	34,863	169,333	633,013	541,051
Southern Illinois	102,998	203,974	1,141,937	652,559
Stanford+	137,061	N/A	N/A	2,268,712
SUNY- Albany+	45,291	49,022	869,922	872,135
SUNY - Buffalo	50,220	182,649	952,746	1,095,062
SUNY - Stony Brook	49,096	137,289	802,698	822,411
Syracuse	38,312	239,110	825,361	966,568
Temple	54,040	282,842	130,657	526,944
Tennessee+	58,697	N/A	286,416	1,017,818
Texas	110,020	136,770	619,376	1,697,660
Texas A & M	110,020	178,232	328,593	1,697,660
Toronto	62,134	95,921	1,170,428	497,208

N/A - Not available
+ - See footnotes

ANALYSIS OF MICROFORM HOLDINGS

INSTITUTION	REELS OF MICROFILM	NUMBER OF MICROCARDS	NUMBER OF MICRO-PRINT SHEETS	NUMBER OF MICROFICHES
Tulane+	45,868	N/A	N/A	1,244,240
Utah	N/A	N/A	N/A	N/A
Vanderbilt+	24,937	N/A	412,892	554,144
Virginia	104,038	181,980	307,980	2,166,070
Virginia Polytechnic+	67,556	604,284	N/A	2,425,917
Washington+	96,767	624,782	N/A	2,839,114
Washington State	68,496	201,440	589,095	1,007,423
Wash. Univ., St. Louis	30,223	26,272	182,757	920,507
Wayne State	40,911	55,346	142,842	922,463
Western Ontario+	56,639	55,512	512,086	669,557
Wisconsin	46,428	62,275	90,373	1,771,506
Yale	117,187	314,619	494,399	613,827
York+	42,256	N/A	N/A	1,163,989
*Boston Public Library+	112,416	60,318	1,301,750	801,352
*Center for Res. Libs.+	270,488	N/A	268,087	377,431
*John Crerar Library	5,950	80,000	N/A	346,613
*Library of Congress	1,064,197	206,009	407,741	3,876,423
*Linda Hall Library	12,970	84,600	N/A	64,200
*National Agric. Lib.	9,500	1,000	65,000	425,000
*National Lib. of Canada	71,684	16,499	443,542	537,643
*National Lib. of Med.	33,050	N/A	N/A	98,211
*Newberry Library	N/A	N/A	N/A	N/A
*New York Public Lib.+	321,836	1,087,886	N/A	436,476
*New York State Library	85,732	160,000	629,970	1,395,759
*Smithsonian Institution	N/A	N/A	N/A	N/A

*Nonuniversity library
N/A - Not available
+ - See footnotes

PH.D. AND ENROLLMENT STATISTICS *

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	ENROLLMENTS - FALL 1981			
			Total Full-time**	Total FTE Part-time**	Full-time Graduate	Part-time Graduate FTE
Alabama	77	38	14,411	1,374	1,076	754
Alberta	139	36	19,571	2,462	2,087	815
Arizona	270	82	23,318	3,344	3,065	1,652
Arizona State	119	32	25,272	5,120	2,468	2,634
Boston+	314	79	18,708	3,111	3,299	1,214
Brigham Young	71	18	23,479	3,069	1,397	463
British Columbia	137	137	19,991	1,872	2,447	353
Brown	137	25	5,348	222	1,349	105
Calif., Berkeley+	737	103	27,677	1,369	9,588	425
Calif., Davis	206	49	19,184	0	5,404	0
Calif., Irvine	93	30	9,600	215	1,383	126
Calif., Los Angeles+	533	60	34,609	N/A	12,000	N/A
Calif., Riverside	100	25	4,306	141	1,278	0
Calif., San Diego	160	34	11,624	290	1,467	0
Calif., Santa Barbara	154	28	15,077	634	2,019	147
Case Western Reserve	143	45	6,567	2,219	961	983
Chicago	349	80	7,962	1,362	5,058	1,235
Cincinnati	175	49	20,062	3,720	2,429	495
Colorado	179	49	19,994	439	2,657	79
Colorado State	156	36	16,689	1,374	1,787	768
Columbia	369	54	13,517	1,148	6,567	801
Connecticut	205	45	16,658	5,779	2,393	2,350
Cornell	380	178	17,068	N/A	4,087	N/A
Dartmouth	29	9	4,275	34	695	8
Duke +	173	32	9,422	126	1,949	36
Emory	86	22	7,098	356	850	207
Florida	237	64	33,772	2,753	4,685	655
Florida State	316	62	17,764	2,128	2,086	525
Georgetown	72	24	9,699	1,077	1,267	443
Georgia	213	45	18,721	5,085	2,504	3,429
Guelph	37	53	9,706	483	710	50
Harvard	322	42	15,544	2,757	6,348	98
Hawaii	104	38	14,868	2,219	1,794	566
Houston	133	26	15,178	5,705	1,865	1,583
Howard	45	23	11,611	N/A	3,313	N/A
Illinois+	548	75	31,732	3,420	6,323	2,232
Indiana	293	99	26,998	709	3,678	356
Iowa	305	56	21,070	2,277	2,964	1,153

* These figures were reported on ARL questionnaires and have not been verified with the National Center for Education Statistics.

** Includes both undergraduate and graduate students.

N/A - Not available

\+ - See footnotes

PH.D. AND ENROLLMENT STATISTICS *

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	ENROLLMENTS - FALL 1981			
			Total Full-time**	Total FTE Part-time**	Full-time Graduate	Part-time Graduate FTE
Iowa State	249	66	21,157	1,494	1,890	776
Johns Hopkins	190	45	4,891	1,671	1,997	851
Kansas+	236	64	20,044	2,189	2,372	1,170
Kent State	104	17	14,641	1,687	1,471	452
Kentucky	85	44	18,185	1,522	1,456	374
Louisiana State	122	48	24,096	2,425	3,081	939
McGill	134	50	15,158	4,294	2,795	890
McMaster	62	27	10,512	1,982	1,145	564
Manitoba	64	33	13,236	3,439	1,397	493
Maryland	364	71	27,608	4,627	2,786	2,397
Massachusetts	185	53	21,802	1,857	2,367	712
MIT	435	28	8,907	201	4,242	59
Miami	86	25	8,652	1,629	900	500
Michigan	565	123	31,190	4,033	10,306	2,603
Michigan State	488	115	35,364	3,979	3,469	2,047
Minnesota	513	88	39,661	9,457	8,163	553
Missouri	194	59	21,175	1,418	2,044	647
Nebraska	222	27	19,242	2,414	2,080	851
New Mexico+	76	31	14,034	3,188	1,170	838
New York	435	161	18,248	5,224	7,650	3,635
North Carolina	260	59	18,239	1,635	2,645	719
Northwestern	307	65	12,121	9,579	4,989	1,596
Notre Dame	70	26	8,760	106	1,609	92
Ohio State	580	84	45,945	1,757	6,267	787
Oklahoma	125	62	19,495	1,874	4,292	683
Oklahoma State	190	38	19,385	1,724	1,456	894
Oregon	308	35	16,645	705	2,997	463
Pennsylvania	365	83	17,344	934	5,486	290
Pennsylvania State	324	90	49,302	4,546	3,750	465
Pittsburgh	401	64	17,240	4,784	3,588	1,987
Princeton	230	50	4,496	0	1,388	0
Purdue	377	53	29,175	1,130	3,360	509
Queen's	88	27	10,900	2,800	1,100	565
Rice	75	27	3,633	0	1,185	0
Rochester	191	66	7,991	813	2,506	346
Rutgers	224	53	32,106	5,451	2,884	2,144
Saskatchewan	22	63	10,028	959	655	125
South Carolina	129	34	17,411	2,949	2,891	1,652

* These figures were reported on ARL questionnaires and have not been verified with the National Center for Education Statistics.

** Includes both undergraduate and graduate students.

N/A - Not available

+ - See footnotes

PH.D. AND ENROLLMENT STATISTICS *

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	ENROLLMENTS - FALL 1981 Total Full-time**	Total FTE Part-time**	Full-time Graduate	Part-time Graduate FTE
Southern California	N/A	N/A	17,548	4,075	2,385	3,107
Southern Illinois	149	20	19,828	2,009	1,136	1,215
Stanford	460	74	11,606	653	4,084	435
SUNY- Albany	80	21	10,166	1,831	1,693	1,217
SUNY - Buffalo	272	65	19,591	2,689	4,986	980
SUNY - Stony Brook	137	30	12,483	N/A	1,703	N/A
Syracuse	151	91	14,900	2,138	2,040	548
Temple	110	60	18,831	4,215	4,508	2,146
Tennessee	235	58	21,820	2,493	2,369	837
Texas	436	70	42,172	2,895	6,999	701
Texas A & M	228	72	30,794	1,616	2,953	526
Toronto	340	65	35,274	4,688	4,946	1,177
Tulane	50	29	8,367	651	1,573	328
Utah	181	60	16,522	2,975	1,216	998
Vanderbilt+	174	38	8,151	671	787	209
Virginia	161	43	15,429	370	2,956	228
Virginia Polytechnic	211	48	20,327	913	2,453	630
Washington	368	67	26,923	3,551	5,318	828
Washington State	120	38	15,967	1,081	1,550	479
Wash. Univ., St. Louis	126	45	7,249	1,079	2,797	327
Wayne State	238	38	17,177	5,664	2,057	1,598
Western Ontario	69	29	14,768	2,910	1,752	226
Wisconsin	892	128	25,987	1,213	9,058	1,189
Yale	270	42	9,719	134	4,587	4,772
York +	50	31	17,628	N/A	2,486	N/A

* These figures were reported on ARL questionnaires and have not been verified with the National Center for Education Statistics.

** Includes both undergraduate and graduate students.

N/A - Not available

\+ - See footnotes

THE ARL LIBRARY INDEX*

The data tables at the beginning of the ARL Statistics display figures reported by ARL member libraries in 22 categories that, with the exception of the measures of interlibrary loan activity, describe the size of ARL libraries in terms of holdings, expenditures, and personnel. The rank order tables provide an overview of the ranges and medians for 14 of these categories, or variables, among ARL academic libraries, as well as quantitatively comparing each library with other ARL member institutions. However, no one of the 22 variables provides a summary measure of a library's relative size within ARL or characterizes the ARL libraries as a whole.

The ARL Library Index has been derived as a means of providing this summary characterization, permitting quantitative comparisons of ARL academic libraries, singly and as a group, with other academic libraries. Through the use of statistical techniques known as factor analysis, it can be determined that 15 of the variables reported to ARL are more closely correlated with each other than with other categories. Within this group of 15 variables, some are subsets or combinations of others, e.g. expenditures for serials are a subset of expenditures for library materials. When the subsets and combinations are eliminated, ten variables emerge as characteristic of ARL library size. These are: volumes held, volumes added (gross), microform units held, current serials received, expenditures for library materials, expenditures for binding, total salary and wage expenditures, other operating expenditures, number of professional staff, and number of nonprofessional staff.

These ten categories delineate an underlying dimension, or factor, of library size. By means of principal component analysis, a technique that is a variant of factor analysis, it is possible to calculate the correlations of each of the variables with this hypothetical factor of library size. From this analysis, a weight for each variable can be determined based upon how closely that variable is correlated with the overall dimension of library size defined by all ten categories. A high correlation indicates that much of the variation in ARL library size is accounted for by the variable in question, implying a characteristic in which ARL libraries are relatively alike. The component score coefficients, or weights, for the 1981-82 ARL academic library data are:

Volumes held	.12561
Volumes added (gross)	.12167
Microforms held	.07523
Current serials received	.12565
Expenditures for library materials	.12778
Expenditures for binding	.10719
Expenditures for salaries and wages	.13014
Other operating expenditures	.09949
Number of professional staff	.12962
Number of nonprofessional staff	.12112

*For a full description of the index see Kendon Stubbs, The ARL Library Index and Quantitative Relationships in the ARL (Washington, D.C.: ARL, 1980).

From these weights an individual library can compute an index score that will indicate its relative position among ARL libraries with respect to the overall factor of library size. The data for each of the ten variables are converted to standard normal form and multiplied by the appropriate weight. The resulting scores are expressed in terms of the number of standard deviations above or below the mean index score for ARL academic libraries. Thus the formula* for calculating a library's 1981-82 index score is:

.12561 (log of volumes held - 6.3132)/.2141
+ .12167 (log of volumes added gross - 4.8105)/.2054
+ .07523 (log of microforms - 6.1665)/.1749
+ .12565 (log of current serials - 4.3596)/.2299
+ .12778 (log of expenditures for materials - 6.3204)/.1595
+ .10719 (log of expenditures for binding - 5.0947)/.2439
+ .13014 (log of total salaries - 6.5548)/.2058
+ .09949 (log of operating expenditures - 5.8119)/.2494
+ .12962 (log of professional staff - 1.8323/.1865
+ .12112 (log of nonprofessional staff - 2.1507)/.1990

The index scores for the 101 academic libraries that were members of ARL during 1981-82 are shown on the following page. It is important to emphasize that these scores are only a summary description of library size, distributing ARL libraries along a normal curve, based on ten quantitative measures that are positively correlated with one another in ARL libraries. The scores are in no way a qualitative assessment of the collections, services, or operations of these libraries.

---

*For calculation on a hand calculator, the formula can be mathematically simplified to:

.58669 x log of volumes held
+ .59236 x log of volumes added gross
+ .43013 x log of microforms
+ .54654 x log of current serials
+ .80113 x log of expenditures for materials
+ .43948 x log of expenditures for binding
+ .63236 x log of total salaries
+ .39892 x log of operating expenditures
+ .69501 x log of professional staff
+ .60864 x log of nonprofessional staff
- 27.93696

ARL Library Index, 1981-1982

1.	Harvard	3.07
2.	Calif., Berkeley	2.47
3.	Calif., Los Angeles	2.19
4.	Yale	2.09
5.	Stanford	2.02
6.	Toronto	2.01
7.	Texas	1.88
8.	Michigan	1.85
9.	Illinois	1.68
10.	Columbia	1.55
11.	Cornell	1.54
12.	Wisconsin	1.49
13.	Washington	1.22
14.	Minnesota	1.15
15.	British Columbia	1.09
16.	North Carolina	1.07
17.	Arizona	1.05
18.	Indiana	.91
19.	Ohio State	.89
20.	Princeton	.79
21.	Pennsylvania State	.77
21.	Chicago	.77
23.	New York	.76
24.	Virginia	.66
25.	Calif., Davis	.65
26.	Pennsylvania	.61
27.	Rutgers	.52
28.	Alberta	.50
28.	Florida	.50
30.	Duke	.46
31.	SUNY - Buffalo	.46
32.	Northwestern	.41
33.	Georgia	.40
34.	Southern California	.38
35.	Michiga State	.31
36.	Howard	.27
37.	Kansas	.17
38.	Pittsburgh	.10
39.	Calif., Santa Barbara	.07
40.	Iowa	.05
41.	Maryland	.00
41.	Calif., San Diego	.00
43.	Hawaii	-.02
44.	Louisiana State	-.05
45.	McGill	-.11
46.	Boston	-.14
47.	Arizona State	-.15
48.	Kentucky	-.21
48.	Southern Illinois	-.21
50.	Syracuse	-.22
51.	MIT	-.25
52.	Johns Hopkins	-.27
52.	Western Ontario	-.27
54.	Missouri	-.30
55.	Cincinnati	-.33
55.	Washington, St. Louis	-.33
57.	Virginia Polytechnic	-.39
58.	Brigham Young	-.46
59.	Texas A&M	-.48
60.	Purdue	-.52
61.	Nebraska	-.53
61.	Temple	-.53
61.	South Carolina	-.53
64.	Emory	-.54
65.	Georgetown	-.55
66.	York	-.58
66.	Washington State	-.58
68.	Colorado	-.60
69.	Brown	-.61
70.	Houston	-.63
71.	Florida State	-.64
72.	Vanderbilt	-.65
73.	Calif., Irvine	-.66
73.	Iowa State	-.66
75.	Oklahoma	-.69
76.	Miami	-.70
76.	SUNY - Stony Brook	-.70
78.	Wayne State	-.72
79.	Tennessee	-.76
79.	Utah	-.76
81.	Massachusetts	-.82
82.	Oregon	-.83
83.	Rochester	-.84
84.	McMaster	-.87
85.	Queen's	-.89
86.	Connecticut	-.93
87.	New Mexico	-.94
88.	Manitoba	-.96
89.	SUNY - Albany	-1.00
90.	Dartmouth	-1.06
91.	Calif., Riverside	-1.12
92.	Alabama	-1.15
93.	Tulane	-1.16
94.	Guelph	-1.20
95.	Colorado State	-1.23
96.	Saskatchewan	-1.37
97.	Notre Dame	-1.38
98.	Case Western Reserve	-1.40
98.	Kent State	-1.40
100.	Rice	-1.45
101.	Oklahoma State	-1.51

SUMMARY OF RANK ORDER TABLES FOR UNIVERSITY LIBRARIES

The table below presents the rank for each university library in each of the fourteen categories for which rank order tables are prepared. As a further indication of the relative position of each institution, note that, in the individual rank order tables on the following pages, "group codes" are used. This is done because, in a number of cases, there is a relatively insignificant difference between two institutions which are nevertheless given two different rankings. The "coarser" ranking provided by clustering institutions into groups (based upon ranges) more realistically describes a library's relative standing.

The table numbers in the chart below refer to the following categories:

Table 1 - Volumes in Library
Table 2 - Volumes Added (Gross)
Table 3 - Microform Holdings
Table 4 - Current Serials
Table 5 - Professional Staff (FTE)
Table 6 - Nonprofessional Staff (FTE)
Table 7 - Total Staff (FTE)
Table 8 - Materials Expenditures
Table 9 - Materials & Binding Expenditures
Table 10 - Salaries & Wages Expenditures
Table 11 - Total Expenditures
Table 12 - Total Items Loaned
Table 13 - Total Items Borrowed
Table 14 - Current Serials Expenditures

INSTITUTION	TABLES													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Alabama	71	80	83	93	82	99	95	72	76	98	90	88	86	91
Alberta	34	24	46	84	36	10	19	20	21	18	21	68	53	48
Arizona	24	17	18	24	27	24	22	8	6	30	16	10	29	19
Arizona State	61	25	59	58	64	42	48	35	36	56	54	45	7	56
Boston	82	49	38	37	50	50	49	38	42	59	51	80	17	46
Brigham Young	62	60	86	68	43	100	34	N/A	N/A	N/A	N/A	94	54	N/A
British Columbia	30	21	5	23	15	6	12	15	16	9	11	25	41	N/A
Brown	54	82	97	85	46	79	68	76	73	73	62	92	90	83
Calif., Berkeley	4	1	24	1	5	8	3	5	4	2	3	8	6	6
Calif., Davis	55	33	35	14	44	29	36	17	15	25	25	12	60	9
Calif., Irvine	101	90	81	86	80	85	92	54	49	53	52	40	16	57
Calif., Los Angeles	8	12	15	4	4	14	8	4	5	3	2	6	12	4
Calif., Riverside	99	84	92	88	100	87	97	80	80	69	82	89	20	94
Calif., San Diego	65	46	91	33	63	36	43	39	38	33	36	35	31	85
Calif., Santa Barbara	70	48	41	59	65	47	50	36	35	24	27	34	10	62
Case Western Reserve	79	101	101	90	48	96	88	99	99	93	96	5	39	69
Chicago	11	11	93	11	38	37	35	46	46	32	33	15	84	38
Cincinnati	87	55	53	61	40	56	46	60	59	43	49	30	18	42
Colorado	45	79	19	57	87	74	89	65	64	64	73	65	35	63
Colorado State	89	74	98	73	88	97	98	97	98	89	94	63	42	89
Columbia	6	20	9	7	9	11	9	27	24	10	13	47	65	12
Connecticut	56	50	49	70	73	86	75	82	84	60	79	33	19	33
Cornell	12	16	4	9	8	12	13	14	14	16	15	32	57	N/A
Dartmouth	69	85	68	62	97	73	94	88	90	96	93	86	55	73
Duke	19	29	94	30	30	33	37	31	31	36	29	24	89	14

N/A - Not available

INSTITUTION	TABLES													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Emory	57	66	79	75	59	70	77	53	55	81	69	41	72	72
Florida	31	51	14	25	31	30	24	34	34	34	31	26	9	28
Florida State	77	78	21	77	60	88	74	69	69	68	76	36	85	68
Georgetown	84	53	82	63	55	91	62	64	63	58	57	93	93	75
Georgia	36	30	10	16	39	35	39	30	29	51	45	22	43	17
Guelph	85	19	96	100	99	57	93	91	91	88	92	99	67	96
Harvard	1	3	6	2	1	1	1	1	1	1	1	7	59	1
Hawaii	53	41	55	22	53	80	59	45	39	46	48	82	92	36
Houston	90	59	51	80	66	65	66	71	71	71	75	85	73	66
Howard	94	44	78	45	21	45	44	12	13	14	14	100	99	30
Illinois	3	4	29	3	14	9	10	7	8	13	10	2	1	6
Indiana	15	6	77	35	17	22	14	25	26	23	26	11	24	41
Iowa	27	43	27	29	41	81	60	21	23	50	42	14	61	21
Iowa State	73	67	63	51	83	71	81	52	52	76	72	43	79	35
Johns Hopkins	29	95	67	56	51	43	53	49	53	57	46	54	5	44
Kansas	33	42	74	34	34	51	41	29	30	44	38	13	4	29
Kent State	74	83	88	101	101	94	96	100	100	92	91	70	32	97
Kentucky	52	81	12	19	56	68	67	44	47	61	58	38	11	49
Louisiana State	43	39	54	44	58	77	64	18	18	55	43	74	62	58
MIT	51	57	72	54	37	39	47	75	74	47	55	31	71	61
Manitoba	93	77	99	96	52	34	52	95	94	48	68	59	45	76
Maryland	64	45	44	55	32	41	30	42	40	37	39	55	95	32
Massachusetts	50	40	80	95	62	64	69	81	83	62	84	71	36	81
McGill	38	37	100	83	35	16	26	68	68	20	34	17	23	70
McMaster	95	62	89	92	95	44	76	48	54	75	65	87	46	79
Miami	78	93	43	66	67	55	57	74	77	66	71	58	34	71
Michigan	5	13	20	5	7	7	5	9	9	8	8	84	51	3
Michigan State	23	18	40	50	45	58	38	37	37	39	37	83	68	59
Minnesota	16	27	52	12	12	28	17	22	20	11	12	1	3	15
Missouri	39	56	8	43	70	69	82	57	56	85	77	27	37	39
Nebraska	60	54	57	47	68	66	78	63	62	86	78	62	70	43
New Mexico	97	73	30	74	85	78	72	89	87	87	88	91	83	92
New York	25	23	37	32	25	25	27	16	17	27	23	73	30	22
North Carolina	22	14	39	18	16	27	23	10	10	26	18	28	69	24
Northwestern	21	32	76	21	19	38	25	40	41	28	32	60	13	26
Notre Dame	67	89	95	98	94	89	99	93	93	97	98	95	97	95
Ohio State	17	26	36	31	18	21	16	23	25	21	17	18	25	18
Oklahoma	47	63	58	67	74	93	83	59	60	82	74	53	8	52

N/A - Not available

INSTITUTION	TABLES													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Oklahoma State	91	98	71	87	96	101	100	96	95	100	100	69	38	86
Oregon	63	92	87	53	84	95	85	62	66	90	70	75	64	74
Pennsylvania	20	36	56	26	26	40	31	55	44	29	30	77	21	55
Pennsylvania State	32	28	13	39	20	13	18	28	28	19	19	49	27	25
Pittsburgh	28	38	45	65	33	31	32	51	48	38	44	9	50	87
Princeton	18	34	47	27	23	18	21	19	19	22	24	76	76	27
Purdue	66	75	66	64	89	26	42	61	61	52	56	64	58	40
Queen's	72	91	90	91	93	32	58	83	81	67	81	96	44	90
Rice	96	94	62	97	98	98	101	87	89	99	99	37	100	78
Rochester	49	86	42	82	71	82	70	98	97	78	87	N/A	N/A	93
Rutgers	40	47	50	41	22	17	20	33	32	17	22	20	47	11
SUNY Albany	100	68	31	78	76	75	91	84	85	94	89	57	14	60
SUNY Buffalo	37	5	17	40	24	49	40	41	43	42	41	29	26	23
SUNY Stony Brook	88	69	34	60	79	60	84	66	67	77	80	52	66	50
Saskatchewan	98	76	69	99	90	62	90	94	96	91	97	98	81	84
South Carolina	44	52	26	71	57	67	79	67	65	80	85	46	78	80
Southern California	35	31	60	20	28	46	29	32	33	35	35	90	98	20
Southern Illinois	58	64	22	49	49	63	45	56	57	45	47	16	75	37
Stanford	7	9	11	13	6	5	7	3	3	5	4	23	49	2
Syracuse	42	35	23	48	54	48	54	73	75	65	66	97	82	65
Temple	59	70	84	81	42	61	55	77	70	49	59	79	80	64
Tennessee	76	97	61	38	72	52	65	85	82	83	86	44	63	67
Texas	9	8	7	6	11	4	6	2	2	7	7	56	22	10
Texas A & M	80	72	16	79	77	54	51	50	50	70	63	21	28	47
Toronto	10	2	32	15	3	2	2	6	7	4	5	42	15	8
Tulane	75	100	65	94	81	92	87	90	88	95	95	66	52	77
Utah	41	99	33	72	92	83	71	79	79	79	83	81	33	88
Vanderbilt	68	87	85	69	69	72	63	70	72	84	60	39	40	54
Virginia	26	22	3	36	29	23	28	26	27	31	28	72	94	31
Virginia Polytechnic	86	61	2	42	78	76	86	43	45	72	64	51	87	34
Washington	14	10	1	17	13	19	15	24	22	15	20	3	77	7
Washington State	92	88	28	28	91	90	80	78	78	63	67	67	88	51
Washington, St. Louis	48	71	75	76	47	59	56	58	58	74	53	48	48	4[illegible]
Wayne State	46	96	73	89	61	84	73	92	92	41	50	19	96	82
Western Ontario	81	65	64	46	86	20	33	47	51	40	40	61	71	53
Wisconsin	13	15	25	10	10	15	11	13	12	12	9	4	2	13
Yale	2	7	48	8	2	3	4	11	11	6	6	50	56	16
York	83	58	70	52	75	53	61	86	86	54	61	78	91	98

N/A - Not available

RANK ORDER TABLE 1: VOLUMES IN LIBRARY

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1-	8,000 and over	5-	4,000-4,999
2-	7,000-7,999	6-	3,000-3,999
3-	6,000-6,999	7-	2,000-2,999
4-	5,000-5,999	8-	1,000-1,999

Gp	Rank	Institution	Value
1	1	Harvard	10,409,228
2	2	Yale	7,725,424
3	3	Illinois	6,242,615
	4	Calif., Berkeley	6,117,424
4	5	Michigan	5,481,172
	6	Columbia	5,192,448
5	7	Stanford	4,889,448
	8	Calif., Los Angeles	4,882,164
	9	Texas	4,846,764
	10	Toronto	4,789,740
	11	Chicago	4,565,591
	12	Cornell	4,401,660
	13	Wisconsin	4,184,038
	14	Washington	4,084,741
6	15	Indiana	3,993,390
	16	Minnesota	3,945,397
	17	Ohio State	3,685,917
	18	Princeton	3,430,242
	19	Duke	3,084,412
	20	Pennsylvania	3,054,234
7	21	Northwestern	2,889,402
	22	North Carolina	2,839,858
	23	Michigan State	2,807,156
	24	Arizona	2,741,442
	25	New York	2,698,871
	26	Virginia	2,466,753
	27	Iowa	2,412,577
	28	Pittsburgh	2,386,504
	29	Johns Hopkins	2,369,926
	30	British Columbia	2,307,541
	31	Florida	2,285,945
	32	Pennsylvania State	2,272,980
	33	Kansas	2,251,917
	34	Alberta	2,231,193
	35	Southern California	2,170,774
	36	Georgia	2,141,617
	37	SUNY-Buffalo	2,137,941
	38	McGill	2,127,348
	39	Missouri	2,117,156
	40	Rutgers	2,024,215
	41	Utah	2,015,662
	42	Syracuse	2,010,009
8	43	Louisiana State	1,952,245
	44	South Carolina	1,949,985
	45	Colorado	1,927,699
	46	Wayne State	1,904,207
	47	Oklahoma	1,903,996
	48	Washington, St. Louis	1,883,737
	49	Rochester	1,871,675
	50	Massachusetts	1,870,049
	51	MIT	1,869,173
	52	Kentucky	1,854,088
	53	Hawaii	1,852,813
	54	Brown	1,804,982
	55	Calif., Davis	1,753,213
	56	Connecticut	1,746,946
	57	Emory	1,736,191
	58	Southern Illinois	1,716,213
	59	Temple	1,683,308
	60	Nebraska	1,602,671
	61	Arizona State	1,597,140
	62	Brigham Young	1,574,100
	63	Oregon	1,540,340
	64	Maryland	1,516,990
	65	Calif., San Diego	1,507,875
	66	Purdue	1,503,098
	67	Notre Dame	1,499,252
	68	Vanderbilt	1,483,428
	69	Dartmouth	1,475,654
	70	Calif., Santa Barbara	1,473,308
	71	Alabama	1,473,135
	72	Queen's	1,449,059
	73	Iowa State	1,447,350
	74	Kent State	1,437,457
	75	Tulane	1,427,366
	76	Tennessee	1,421,342
	77	Florida State	1,413,613
	78	Miami	1,411,297
	79	Case Western Reserve	1,410,669
	80	Texas A & M	1,403,513
	81	Western Ontario	1,403,508
	82	Boston	1,395,964
	83	York	1,379,915
	84	Georgetown	1,343,971
	85	Guelph	1,340,750
	86	Virginia Polytechnic	1,334,979
	87	Cincinnati	1,330,758
	88	SUNY-Stony Brook	1,321,278
	89	Colorado State	1,315,520
	90	Houston	1,311,174
	91	Oklahoma State	1,307,732
	92	Washington State	1,304,500
	93	Manitoba	1,251,077
	94	Howard	1,242,553
	95	McMaster	1,233,720
	96	Rice	1,109,797
	97	New Mexico	1,086,529
	98	Saskatchewan	1,083,069
	99	Calif., Riverside	1,075,121
	100	SUNY-Albany	1,027,943
	101	Calif., Irvine	1,023,518

RANK ORDER TABLE 2: VOLUMES ADDED (GROSS)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 190,000 and over
2- 170,000-189,999
3- 150,000-169,999
4- 130,000-149,999
5- 110,000-129,999
6- 90,000 -109,999
7- 70,000 - 89,999
8- 50,000 - 69,999
9- 30,000 - 49,999
10- under 30,000

Gp	Rank	Institution	Value
1	1	Calif., Berkeley	209,264
	2	Toronto	199,755
2	3	Harvard	185,775
	4	Illinois	172,676
3	5	SUNY-Buffalo	165,286
	6	Indiana	162,884
	7	Yale	161,097
	8	Texas	159,155
4	9	Stanford	137,403
	10	Washington	133,880
	11	Chicago	132,269
5	12	Calif., Los Angeles	129,933
	13	Michigan	128,911
	14	North Carolina	123,940
	15	Wisconsin	113,953
6	16	Cornell	109,564
	17	Arizona	107,785
	18	Michigan State	105,928
	19	Guelph	102,495
	20	Columbia	99,053
	21	British Columbia	95,910
	22	Virginia	90,164
7	23	New York	89,290
	24	Alberta	87,932
	25	Arizona State	85,405
	26	Ohio State	84,726
	27	Minnesota	82,937
	28	Pennsylvania State	82,607
	29	Duke	79,464
	30	Georgia	79,430
	31	Southern California	76,293
	32	Northwestern	75,707
	33	Calif., Davis	73,763
	34	Princeton	72,843
	35	Syracuse	71,532
	36	Pennsylvania	71,135
	37	McGill	70,939
	38	Pittsburgh	70,833
	39	Louisiana State	70,219
8	40	Massachusetts	69,400
	41	Hawaii	66,478
	42	Kansas	65,125
	43	Iowa	64,437
	44	Howard	63,815
	45	Maryland	62,969
	46	Calif., San Diego	59,955
	47	Rutgers	59,730
	48	Calif., Santa Barbara	59,615
	49	Boston	59,367
	50	Connecticut	58,366
	51	Florida	57,737
	52	South Carolina	57,675
	53	Georgetown	57,336
	54	Nebraska	57,014
	55	Cincinnati	56,729
	56	Missouri	56,635
	57	MIT	55,643
	58	York	55,225
	59	Houston	54,944
	60	Brigham Young	53,223
	61	Virginia Polytechnic	52,965
	62	McMaster	52,725
	63	Oklahoma	50,909
	64	Southern Illinois	50,605
	65	Western Ontario	50,592
	66	Emory	50,543
	67	Iowa State	50,271
	68	SUNY-Albany	50,117
9	69	SUNY-Stony Brook	49,650
	70	Temple	49,478
	71	Washington, St. Louis	47,950
	72	Texas A & M	46,537
	73	New Mexico	46,531
	74	Colorado State	45,972
	75	Purdue	44,965
	76	Saskatchewan	44,921
	77	Manitoba	44,626
	78	Florida State	43,945
	79	Colorado	43,941
	80	Alabama	43,601
	81	Kentucky	43,573
	82	Brown	43,265
	83	Kent State	43,254
	84	Calif., Riverside	42,925
	85	Dartmouth	42,756
	86	Rochester	42,058
	87	Vanderbilt	41,477
	88	Washington State	40,821
	89	Notre Dame	40,650
	90	Calif., Irvine	40,456
	91	Queen's	39,396
	92	Oregon	38,931
	93	Miami	38,661
	94	Rice	38,655
	95	Johns Hopkins	36,101
	96	Wayne State	34,563
	97	Tennessee	33,860
	98	Oklahoma State	33,706
	99	Utah	32,253
10	100	Tulane	28,888
	101	Case Western Reserve	22,590

RANK ORDER TABLE 3: MICROFORM HOLDINGS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 3,500 and over
2- 3,000-3,499
3- 2,500-2,999
4- 2,000-2,499
5- 1,500-1,999
6- 1,000-1,499
7- 500- 999
8- under 500

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Washington	3,560,663	6	51	Houston	1,496,194
					52	Minnesota	1,488,453
2	2	Virginia Polytechnic	3,097,757		53	Cincinnati	1,472,018
					54	Louisiana State	1,458,558
3	3	Virginia	2,760,068		55	Hawaii	1,452,743
	4	Cornell	2,704,541		56	Pennsylvania	1,439,109
	5	British Columbia	2,644,514		57	Nebraska	1,432,132
	6	Harvard	2,643,772		58	Oklahoma	1,388,339
	7	Texas	2,563,826		59	Arizona State	1,379,146
					60	Southern California	1,378,260
4	8	Missouri	2,483,735		61	Tennessee	1,362,931
	9	Columbia	2,458,565		62	Rice	1,352,501
	10	Georgia	2,433,528		63	Iowa State	1,297,561
	11	Stanford	2,405,773		64	Western Ontario	1,293,794
	12	Kentucky	2,403,624		65	Tulane	1,290,108
	13	Pennsylvania State	2,382,598		66	Purdue	1,267,441
	14	Florida	2,322,671		67	Johns Hopkins	1,242,202
	15	Calif., Los Angeles	2,315,981		68	Dartmouth	1,239,337
	16	Texas A & M	2,314,505		69	Saskatchewan	1,235,403
	17	SUNY-Buffalo	2,280,677		70	York	1,206,245
	18	Arizona	2,268,097		71	Oklahoma State	1,205,434
	19	Colorado	2,225,547		72	MIT	1,163,050
	20	Michigan	2,183,427		73	Wayne State	1,161,562
	21	Florida State	2,105,272		74	Kansas	1,161,133
	22	Southern Illinois	2,101,468		75	Washington, St. Louis	1,159,759
	23	Syracuse	2,069,351		76	Northwestern	1,157,076
	24	Calif., Berkeley	2,026,087		77	Indiana	1,138,129
					78	Howard	1,112,789
5	25	Wisconsin	1,970,582		79	Emory	1,081,159
	26	South Carolina	1,896,021		80	Massachusetts	1,074,215
	27	Iowa	1,885,278		81	Calif., Irvine	1,067,243
	28	Washington State	1,866,454		82	Georgetown	1,059,141
	29	Illinois	1,844,752		83	Alabama	1,000,071
	30	New Mexico	1,836,899				
	31	SUNY-Albany	1,836,370	7	84	Temple	994,483
	32	Toronto	1,825,691		85	Vanderbilt	991,973
	33	Utah	1,819,338		86	Brigham Young	948,059
	34	SUNY-Stony Brook	1,811,494		87	Oregon	945,594
	35	Calif., Davis	1,794,921		88	Kent State	918,229
	36	Ohio State	1,784,451		89	McMaster	894,344
	37	New York	1,768,135		90	Queen's	889,687
	38	Boston	1,756,095		91	Calif., San Diego	877,114
	39	North Carolina	1,724,821		92	Calif., Riverside	865,700
	40	Michigan State	1,722,693		93	Chicago	863,946
	41	Calif., Santa Barbara	1,665,110		94	Duke	854,961
	42	Rochester	1,649,412		95	Notre Dame	762,697
	43	Miami	1,625,658		96	Guelph	741,960
	44	Maryland	1,591,938		97	Brown	721,772
	45	Pittsburgh	1,566,451		98	Colorado State	707,608
	46	Alberta	1,542,285		99	Manitoba	592,631
	47	Princeton	1,541,317		100	McGill	529,750
	48	Yale	1,540,032				
	49	Connecticut	1,536,205	8	101	Case Western Reserve	449,025
	50	Rutgers	1,515,381				

RANK ORDER TABLE 4: CURRENT SERIALS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 70,000 and over
2- 60,000-69,999
3- 50,000-59,999
4- 40,000-49,999
5- 30,000-39,999
6- 20,000-29,999
7- 10,000-19,999
8- under 10,000

Gp	Rank	Institution	Value
1	1	Calif., Berkeley	102,265
	2	Harvard	97,000
	3	Illinois	93,913
2	4	Calif., Los Angeles	69,548
	5	Michigan	60,688
	6	Texas	60,000
3	7	Columbia	59,604
	8	Yale	57,679
	9	Cornell	54,643
	10	Wisconsin	53,836
4	11	Chicago	47,419
	12	Minnesota	47,032
	13	Stanford	46,455
	14	Calif., Davis	45,207
	15	Toronto	44,007
	16	Georgia	43,568
	17	Washington	40,698
5	18	North Carolina	39,593
	19	Kentucky	34,624
	20	Southern California	33,021
	21	Northwestern	32,606
	22	Hawaii	32,380
	23	British Columbia	32,213
	24	Arizona	31,797
	25	Florida	31,477
	26	Pennsylvania	30,971
	27	Princeton	30,927
	28	Washington State	30,850
6	29	Iowa	29,891
	30	Duke	29,126
	31	Ohio State	28,591
	32	New York	27,925
	33	Calif., San Diego	27,904
	34	Kansas	27,712
	35	Indiana	27,5[illegible]9
	36	Virginia	25,00[illegible]
	37	Boston	24,908
	38	Tennessee	24,320
	39	Pennsylvania State	22,735
	40	SUNY-Buffalo	22,562
	41	Rutgers	21,769
	42	Virginia Polytechnic	21,635
	43	Missouri	21,588
	44	Louisiana State	21,524
	45	Howard	21,402
	46	Western Ontario	21,000
	47	Nebraska	20,859
	48	Syracuse	20,430
	49	Southern Illinois	20,364
	50	Michigan State	20,301
	51	Iowa State	20,054
	52	York	20,017
	53	Oregon	20,000
7	54	MIT	19,843
	55	Maryland	19,632
	56	Johns Hopkins	19,541
	57	Colorado	19,441
	58	Arizona State	19,375
	59	Calif., Santa Barbara	19,275
	60	SUNY-Stony Brook	18,579
	61	Cincinnati	18,229
	62	Dartmouth	18,098
	63	Georgetown	17,761
	64	Purdue	17,755
	65	Pittsburgh	17,702
	66	Miami	17,283
	67	Oklahoma	16,957
	68	Brigham Young	16,707
	69	Vanderbilt	16,315
	70	Connecticut	16,276
	71	South Carolina	16,203
	72	Utah	16,125
	73	Colorado State	16,029
	74	New Mexico	15,878
	75	Emory	15,737
	76	Washington, St. Louis	15,558
	77	Florida State	15,541
	78	SUNY-Albany	15,436
	79	Texas A & M	15,223
	80	Houston	14,995
	81	Temple	14,972
	82	Rochester	14,953
	83	McGill	14,802
	84	Alberta	14,594
	85	Brown	14,251
	86	Calif., Irvine	14,228
	87	Oklahoma State	14,196
	88	Calif., Riverside	13,977
	89	Wayne State	13,525
	90	Case Western Reserve	13,404
	91	Queen's	13,215
	92	McMaster	13,016
	93	Alabama	12,729
	94	Tulane	12,518
	95	Massachusetts	12,510
	96	Manitoba	12,174
	97	Rice	11,675
	98	Notre Dame	10,852
	99	Saskatchewan	10,184
8	100	Guelph	9,104
	101	Kent State	8,706

RANK ORDER TABLE 5: PROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 150 and over
2- 125-149
3- 100-124
4- 75-99
5- 50-74
6- under 50

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	279		50	Boston	63
	2	Yale	179		51	Johns Hopkins	63
	3	Toronto	162		52	Manitoba	63
					53	Hawaii	62
2	4	Calif., Los Angeles	149		54	Syracuse	62
	5	Calif., Berkeley	146		55	Georgetown	61
	6	Stanford	145		56	Kentucky	61
	7	Michigan	141		57	South Carolina	61
	8	Cornell	140		58	Louisiana State	60
	9	Columbia	137		59	Emory	59
	10	Wisconsin	135		60	Florida State	57
	11	Texas	133		61	Wayne State	57
					62	Massachusetts	56
3	12	Minnesota	123		63	Calif., San Diego	55
	13	Washington	115		64	Arizona State	54
	14	Illinois	112		65	Calif., Santa Barbara	54
	15	British Columbia	111		66	Houston	54
	16	North Carolina	105		67	Miami	54
	17	Indiana	104		68	Nebraska	54
	18	Ohio State	100		69	Vanderbilt	53
					70	Missouri	52
4	19	Northwestern	99		71	Rochester	52
	20	Pennsylvania State	97		72	Tennessee	51
	21	Howard	96		73	Connecticut	50
	22	Rutgers	96		74	Oklahoma	50
	23	Princeton	95		75	York	50
	24	SUNY-Buffalo	93				
	25	New York	92	6	76	SUNY-Albany	49
	26	Pennsylvania	92		77	Texas A & M	49
	27	Arizona	88		78	Virginia Polytechnic	49
	28	Southern California	87		79	SUNY-Stony Brook	48
	29	Virginia	86		80	Calif., Irvine	47
	30	Duke	83		81	Tulane	47
	31	Florida	82		82	Alabama	46
	32	Maryland	82		83	Iowa State	46
	33	Pittsburgh	81		84	Oregon	46
	34	Kansas	80		85	New Mexico	45
	35	McGill	79		86	Western Ontario	45
	36	Alberta	78		87	Colorado	43
	37	MIT	76		88	Colorado State	42
					89	Purdue	42
5	38	Chicago	74		90	Saskatchewan	42
	39	Georgia	74		91	Washington State	42
	40	Cincinnati	72		92	Utah	41
	41	Iowa	72		93	Queen's	40
	42	Temple	72		94	Notre Dame	39
	43	Brigham Young	71		95	McMaster	38
	44	Calif., Davis	70		96	Oklahoma State	38
	45	Michigan State	69		97	Dartmouth	37
	46	Brown	67		98	Rice	37
	47	Washington, St. Louis	66		99	Guelph	36
	48	Case Western Reserve	65		100	Calif., Riverside	32
	49	Southern Illinois	65		101	Kent State	32

RANK ORDER TABLE 6: NONPROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 400 and over
2- 350-399
3- 300-349
4- 250-299
5- 200-249
6- 150-199
7- 100-149
8- 50- 99

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	523		49	SUNY-Buffalo	135
	2	Toronto	500		50	Boston	133
					51	Kansas	132
2	3	Yale	386		52	Tennessee	132
	4	Texas	360		53	York	132
					54	Texas A & M	124
3	5	Stanford	344		55	Miami	121
	6	British Columbia	320		56	Cincinnati	120
	7	Michigan	309		57	Guelph	120
	8	Calif., Berkeley	305		58	Michigan State	120
					59	Washington, St. Louis	117
4	9	Illinois	296		60	SUNY-Stony Brook	116
	10	Alberta	285		61	Temple	115
	11	Columbia	280		62	Saskatchewan	114
	12	Cornell	258		63	Southern Illinois	114
	13	Pennsylvania State	255		64	Massachusetts	112
					65	Houston	110
5	14	Calif., Los Angeles	240		66	Nebraska	108
	15	Wisconsin	236		67	South Carolina	107
	16	McGill	235		68	Kentucky	106
	17	Rutgers	229		69	Missouri	106
	18	Princeton	228		70	Emory	105
	19	Washington	228		71	Iowa State	105
	20	Western Ontario	208		72	Vanderbilt	105
	21	Ohio State	207		73	Dartmouth	103
	22	Indiana	203		74	Colorado	101
					75	SUNY-Albany	101
6	23	Virginia	197		76	Virginia Polytechnic	101
	24	Arizona	188		77	Louisiana State	100
	25	New York	182		78	New Mexico	100
	26	Purdue	182				
	27	North Carolina	180	8	79	Brown	99
	28	Minnesota	177		80	Hawaii	98
	29	Calif., Davis	176		81	Iowa	97
	30	Florida	170		82	Rochester	97
	31	Pittsburgh	164		83	Utah	97
	32	Queen's	164		84	Wayne State	97
	33	Duke	162		85	Calif., Irvine	95
	34	Manitoba	161		86	Connecticut	95
	35	Georgia	157		87	Calif., Riverside	93
	36	Calif., San Diego	156		88	Florida State	92
	37	Chicago	156		89	Notre Dame	92
	38	Northwestern	154		90	Washington State	92
	39	MIT	152		91	Georgetown	90
	40	Pennsylvania	152		92	Tulane	89
	41	Maryland	151		93	Oklahoma	84
					94	Kent State	83
7	42	Arizona State	147		95	Oregon	82
	43	Johns Hopkins	147		96	Case Western Reserve	81
	44	McMaster	147		97	Colorado State	75
	45	Howard	146		98	Rice	72
	46	Southern California	140		99	Alabama	63
	47	Calif., Santa Barbara	139		100	Brigham Young	61
	48	Syracuse	139		101	Oklahoma State	53

RANK ORDER TABLE 7: TOTAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 650 and over	7- 350-399
2- 600-649	8- 300-349
3- 550-599	9- 250-299
4- 500-549	10- 200-249
5- 450-499	11- 150-199
6- 400-449	12- 100-149

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	931		49	Boston	258
	2	Toronto	750		50	Calif., Santa Barbara	253
2	3	Calif., Berkeley	648	10	51	Texas A & M	248
	4	Yale	615		52	Manitoba	245
					53	Johns Hopkins	244
3	5	Michigan	583		54	Syracuse	244
	6	Texas	574		55	Temple	241
	7	Stanford	550		56	Washington, St. Louis	239
					57	Miami	237
4	8	Calif., Los Angeles	545		58	Queen's	236
	9	Columbia	536		59	Hawaii	227
	10	Illinois	517		60	Iowa	226
	11	Wisconsin	504		61	York	225
					62	Georgetown	224
5	12	British Columbia	480		63	Vanderbilt	224
	13	Cornell	463		64	Louisiana State	221
	14	Indiana	456		65	Tennessee	220
					66	Houston	218
6	15	Washington	449		67	Kentucky	218
	16	Ohio State	441		68	Brown	214
	17	Minnesota	412		69	Massachusetts	213
	18	Pennsylvania State	407		70	Rochester	211
					71	Utah	210
7	19	Alberta	389		72	New Mexico	207
	20	Rutgers	384		73	Wayne State	207
	21	Princeton	380		74	Florida State	206
	22	Arizona	365		75	Connecticut	204
					76	McMaster	202
8	23	North Carolina	349		77	Emory	201
	24	Florida	348				
	25	Northwestern	346	11	78	Nebraska	199
	26	McGill	341		79	South Carolina	198
	27	New York	339		80	Washington State	198
	28	Virginia	333		81	Iowa State	197
	29	Southern California	323		82	Missouri	197
	30	Maryland	318		83	Oklahoma	193
	31	Pennsylvania	318		84	SUNY-Stony Brook	191
	32	Pittsburgh	318		85	Oregon	189
	33	Western Ontario	310		86	Virginia Polytechnic	187
	34	Brigham Young	307		87	Tulane	181
	35	Chicago	303		88	Case Western Reserve	180
	36	Calif., Davis	300		89	Colorado	180
	37	Duke	300		90	Saskatchewan	174
					91	SUNY-Albany	174
9	38	Michigan State	288		92	Calif., Irvine	171
	39	Georgia	283		93	Guelph	170
	40	SUNY-Buffalo	283		94	Dartmouth	169
	41	Kansas	274		95	Alabama	167
	42	Purdue	274		96	Kent State	157
	43	Calif., San Diego	271				
	44	Howard	267	12	97	Calif., Riverside	147
	45	Southern Illinois	267		98	Colorado State	147
	46	Cincinnati	263		99	Notre Dame	142
	47	MIT	263		100	Oklahoma State	142
	48	Arizona State	261		101	Rice	116

RANK ORDER TABLE 8: MATERIALS EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1-	5,000 and over	6-	2,500-2,999
2-	4,500-4,999	7-	2,000-2,499
3-	4,000-4,499	8-	1,500-1,999
4-	3,500-3,999	9-	1,000-1,499
5-	3,000-3,499	10-	under 1,000

Gp	Rank	Institution	Value
1	1	Harvard	5,782,416
2	2	Texas	4,847,047
	3	Stanford	4,732,935
3	4	Calif., Los Angeles	4,195,060
	5	Calif., Berkeley	4,169,260
	6	Toronto	4,037,714
	7	Illinois	4,019,841
4	8	Arizona	3,996,488
	9	Michigan	3,677,902
	10	North Carolina	3,520,990
5	11	Yale	3,425,885
	12	Howard	3,356,216
	13	Wisconsin	3,352,060
	14	Cornell	3,157,799
	15	British Columbia	3,113,900
	16	New York	3,090,301
	17	Calif., Davis	3,002,697
6	18	Louisiana State	2,968,631
	19	Princeton	2,898,532
	20	Alberta	2,879,623
	21	Iowa	2,794,902
	22	Minnesota	2,781,213
	23	Ohio State	2,756,128
	24	Washington	2,750,266
	25	Indiana	2,722,608
	26	Virginia	2,693,004
	27	Columbia	2,672,123
	28	Pennsylvania State	2,607,972
	29	Kansas	2,603,008
	30	Georgia	2,590,782
	31	Duke	2,533,703
	32	Southern California	2,525,300
7	33	Rutgers	2,466,182
	34	Florida	2,446,470
	35	Arizona State	2,384,753
	36	Calif., Santa Barbara	2,383,000
	37	Michigan State	2,296,850
	38	Boston	2,249,999
	39	Calif., San Diego	2,248,442
	40	Northwestern	2,244,989
	41	SUNY-Buffalo	2,203,365
	42	Maryland	2,199,359
	43	Virginia Polytechnic	2,117,884
	44	Kentucky	2,058,863
	45	Hawaii	2,053,661
	46	Chicago	2,004,950
	47	Western Ontario	2,002,798
8	48	McMaster	1,992,497
	49	Johns Hopkins	1,988,897
	50	Texas A & M	1,983,573
	51	Pittsburgh	1,949,305
	52	Iowa State	1,944,711
	53	Emory	1,926,858
	54	Calif., Irvine	1,920,818
	55	Pennsylvania	1,915,557
	56	Southern Illinois	1,878,751
	57	Missouri	1,873,419
	58	Washington, St. Louis	1,829,571
	59	Oklahoma	1,823,880
	60	Cincinnati	1,815,229
	61	Purdue	1,766,215
	62	Oregon	1,762,787
	63	Nebraska	1,757,449
	64	Georgetown	1,751,429
	65	Colorado	1,730,097
	66	SUNY-Stony Brook	1,727,393
	67	South Carolina	1,711,552
	68	McGill	1,684,986
	69	Florida State	1,636,511
	70	Vanderbilt	1,617,705
	71	Houston	1,615,209
	72	Alabama	1,609,716
	73	Syracuse	1,600,356
	74	Miami	1,598,648
	75	MIT	1,598,201
	76	Brown	1,590,306
	77	Temple	1,569,268
	78	Washington State	1,548,782
	79	Utah	1,545,081
	80	Calif., Riverside	1,517,408
	81	Massachusetts	1,501,324
9	82	Connecticut	1,496,816
	83	Queen's	1,474,236
	84	SUNY-Albany	1,454,997
	85	Tennessee	1,452,034
	86	York	1,428,184
	87	Rice	1,390,502
	88	Dartmouth	1,376,022
	89	New Mexico	1,374,232
	90	Tulane	1,368,797
	91	Guelph	1,363,000
	92	Wayne State	1,335,424
	93	Notre Dame	1,307,972
	94	Saskatchewan	1,292,216
	95	Manitoba	1,291,677
	96	Oklahoma State	1,272,485
	97	Colorado State	1,166,275
	98	Rochester	1,157,223
	99	Case Western Reserve	1,140,941
10	100	Kent State	970,715

Brigham Young figure not published.

RANK ORDER TABLE 9: MATERIALS AND BINDING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 5,0[illegible] and over
2- 4,[illegible]-4,999
3- 4[illegible]00-4,499
4- 3,500-3,999
5- 3,000-3,499
6- 2,500-2,999
7- 2,000-2,499
8- 1,500-1,999
9- 1,000-1,499

Gp	Rank	Institution	Value
1	1	Harvard	6,316,386
2	2	Texas	4,989,059
	3	Stanford	4,988,333
	4	Calif., Berkeley	4,736,770
	5	Calif., Los Angeles	4,640,576
3	6	Arizona	4,255,443
	7	Toronto	4,221,726
	8	Illinois	4,112,482
4	9	Michigan	3,977,165
	10	North Carolina	3,778,835
	11	Yale	3,655,569
	12	Wisconsin	3,537,457
5	13	Howard	3,434,516
	14	Cornell	3,355,069
	15	Calif., Davis	3,272,720
	16	British Columbia	3,257,524
	17	New York	3,254,023
	18	Louisiana State	3,156,215
	19	Princeton	3,081,832
	20	Minnesota	3,026,729
	21	Alberta	3,021,178
6	22	Washington	2,955,450
	23	Iowa	2,948,098
	24	Columbia	2,944,990
	25	Ohio State	2,893,700
	26	Indiana	2,891,949
	27	Virginia	2,852,454
	28	Pennsylvania State	2,769,471
	29	Georgia	2,765,603
	30	Kansas	2,724,321
	31	Duke	2,683,137
	32	Rutgers	2,675,213
	33	Southern California	2,649,295
	34	Florida	2,614,123
	35	Calif., Santa Barbara	2,583,000
	36	Arizona State	2,567,049
7	37	Michigan State	2,458,297
	38	Calif., San Diego	2,457,092
	39	Hawaii	2,410,919
	40	Maryland	2,387,360
	41	Northwestern	2,367,315
	42	Boston	2,353,444
	43	SUNY-Buffalo	2,350,306
	44	Pennsylvania	2,275,108
	45	Virginia Polytechnic	2,261,101
	46	Chicago	2,223,225
	47	Kentucky	2,154,858
	48	Pittsburgh	2,122,766
	49	Calif., Irvine	2,118,507
	50	Texas A & M	2,100,257
	51	Western Ontario	2,095,971
	52	Iowa State	2,072,040
	53	Johns Hopkins	2,053,086
	54	McMaster	2,047,068
	55	Emory	2,043,458
	56	Missouri	2,021,101
8	57	Southern Illinois	1,981,523
	58	Washington, St. Louis	1,938,755
	59	Cincinnati	1,921,866
	60	Oklahoma	1,893,025
	61	Purdue	1,866,095
	62	Nebraska	1,849,773
	63	Georgetown	1,847,271
	64	Colorado	1,845,077
	65	South Carolina	1,839,275
	66	Oregon	1,825,602
	67	SUNY-Stony Brook	1,805,028
	68	McGill	1,803,691
	69	Florida State	1,755,563
	70	Temple	1,754,421
	71	Houston	1,729,898
	72	Vanderbilt	1,711,696
	73	Brown	1,700,378
	74	MIT	1,693,719
	75	Syracuse	1,677,185
	76	Alabama	1,676,716
	77	Miami	1,670,951
	78	Washington State	1,656,923
	79	Utah	1,655,196
	80	Calif., Riverside	1,652,302
	81	Queen's	1,573,185
	82	Tennessee	1,562,288
	83	Massachusetts	1,561,323
	84	Connecticut	1,524,878
	85	SUNY-Albany	1,505,997
	86	York	1,502,439
9	87	New Mexico	1,464,590
	88	Tulane	1,458,184
	89	Rice	1,436,703
	90	Dartmouth	1,425,767
	91	Guelph	1,411,000
	92	Wayne State	1,394,537
	93	Notre Dame	1,387,410
	94	Manitoba	1,363,231
	95	Oklahoma State	1,345,123
	96	Saskatchewan	1,335,782
	97	Rochester	1,257,937
	98	Colorado State	1,253,646
	99	Case Western Reserve	1,214,962
	100	Kent State	1,031,683

Brigham Young figure not published.

RANK ORDER TABLE 10: SALARIES AND WAGES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1-	10,000 and over	6-	5,000-5,999
2-	9,000-9,999	7-	4,000-4,999
3-	8,000-8,999	8-	3,000-3,999
4-	7,000-7,999	9-	2,000-2,999
5-	6,000-6,999	10-	1,000-1,999

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	12,930,744		49	Temple	3,304,504
	2	Calif., Berkeley	11,670,545		50	Iowa	3,299,971
	3	Calif., Los Angeles	10,779,342		51	Georgia	3,254,741
	4	Toronto	10,740,980		52	Purdue	3,204,861
					53	Calif., Irvine	3,191,991
2	5	Stanford	9,875,649		54	York	3,107,084
3	6	Yale	8,351,627	9	55	Louisiana State	2,910,595
					56	Arizona State	2,889,674
4	7	Texas	7,587,294		57	Johns Hopkins	2,856,873
	8	Michigan	7,516,157		58	Georgetown	2,846,335
	9	British Columbia	7,330,954		59	Boston	2,843,436
	10	Columbia	7,033,156		60	Connecticut	2,842,162
					61	Kentucky	2,801,186
5	11	Minnesota	6,875,630		62	Massachusetts	2,774,418
	12	Wisconsin	6,815,220		63	Washington State	2,754,484
	13	Illinois	6,666,517		64	Colorado	2,739,438
	14	Howard	6,084,260		65	Syracuse	2,722,169
	15	Washington	6,008,284		66	Miami	2,699,647
					67	Queen's	2,666,019
6	16	Cornell	5,928,458		68	Florida State	2,638,899
	17	Rutgers	5,859,020		69	Calif., Riverside	2,628,958
	18	Alberta	5,631,029		70	Texas A & M	2,609,301
	19	Pennsylvania State	5,593,252		71	Houston	2,606,102
	20	McGill	5,526,192		72	Virginia Polytechnic	2,605,973
	21	Ohio State	5,466,618		73	Brown	2,605,305
	22	Princeton	5,377,077		74	Washington, St. Louis	2,566,808
	23	Indiana	5,360,880		75	McMaster	2,549,673
	24	Calif., Santa Barbara	5,192,000		76	Iowa State	2,536,389
					77	SUNY-Stony Brook	2,497,453
7	25	Calif., Davis	4,946,113		78	Rochester	2,462,488
	26	North Carolina	4,945,302		79	Utah	2,427,000
	27	New York	4,840,161		80	South Carolina	2,412,976
	28	Northwestern	4,780,315		81	Emory	2,410,377
	29	Pennsylvania	4,750,748		82	Oklahoma	2,383,598
	30	Arizona	4,494,089		83	Tennessee	2,382,739
	31	Virginia	4,415,944		84	Vanderbilt	2,351,223
	32	Chicago	4,380,778		85	Missouri	2,338,918
	33	Calif., San Diego	4,264,153		86	Nebraska	2,312,896
	34	Florida	4,254,577		87	New Mexico	2,246,383
	35	Southern California	4,199,694		88	Guelph	2,244,000
	36	Duke	4,098,134		89	Colorado State	2,202,154
					90	Oregon	2,186,581
8	37	Maryland	3,951,840		91	Saskatchewan	2,171,192
	38	Pittsburgh	3,941,781		92	Kent State	2,163,198
	39	Michigan State	3,917,646		93	Case Western Reserve	2,132,216
	40	Western Ontario	3,898,667		94	SUNY-Albany	2,122,035
	41	Wayne State	3,669,072				
	42	SUNY-Buffalo	3,615,521	10	95	Tulane	1,972,873
	43	Cincinnati	3,597,393		96	Dartmouth	1,902,232
	44	Kansas	3,578,659		97	Notre Dame	1,790,098
	45	Southern Illinois	3,530,919		98	Alabama	1,573,196
	46	Hawaii	3,447,575		99	Rice	1,472,297
	47	MIT	3,417,969		100	Oklahoma State	1,455,172
	48	Manitoba	3,394,897				

Brigham Young figure not published.

RANK ORDER TABLE 11: TOTAL OPERATING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1-	12,000 and over	6-	7,000-7,999
2-	11,000-11,999	7-	6,000-6,999
3-	10,000-10,999	8-	5,000-5,999
4-	9,000 - 9,999	9-	4,000-4,999
5-	8,000 - 8,999	10-	3,000-3,999

Gp	Rank	Institution	Value
1	1	Harvard	21,082,717
	2	Calif., Los Angeles	18,685,828
	3	Calif., Berkeley	18,339,328
	4	Stanford	16,631,416
	5	Toronto	16,147,563
	6	Yale	14,208,040
	7	Texas	13,879,151
	8	Michigan	12,788,512
2	9	Wisconsin	11,877,013
	10	Illinois	11,811,224
	11	British Columbia	11,428,727
	12	Minnesota	11,061,416
3	13	Columbia	10,954,833
	14	Howard	10,950,877
	15	Cornell	10,725,269
4	16	Arizona	9,966,596
	17	Ohio State	9,776,569
	18	North Carolina	9,599,908
	19	Pennsylvania State	9,417,339
	20	Washington	9,408,286
	21	Alberta	9,360,319
	22	Rutgers	9,293,618
	23	New York	9,214,884
	24	Princeton	9,181,191
5	25	Calif., Davis	8,993,028
	26	Indiana	8,988,614
	27	Calif., Santa Barbara	8,560,000
	28	Virginia	8,100,114
	29	Duke	8,051,588
6	30	Pennsylvania	7,932,783
	31	Florida	7,880,313
	32	Northwestern	7,830,819
	33	Chicago	7,819,811
	34	McGill	7,787,967
	35	Southern California	7,784,422
	36	Calif., San Diego	7,407,604
	37	Michigan State	7,172,379
	38	Kansas	7,126,947
7	39	Maryland	6,722,941
	40	Western Ontario	6,643,825
	41	SUNY-Buffalo	6,601,859
	42	Iowa	6,545,913
	43	Louisiana State	6,525,654
	44	Pittsburgh	6,496,285
	45	Georgia	6,444,928
	46	Johns Hopkins	6,311,412
	47	Southern Illinois	6,183,353
	48	Hawaii	6,140,419
	49	Cincinnati	6,084,782
	50	Wayne State	6,062,833
	51	Boston	6,032,317
8	52	Calif., Irvine	5,972,569
	53	Washington, St. Louis	5,862,386
	54	Arizona State	5,801,271
	55	MIT	5,748,851
	56	Purdue	5,567,430
	57	Georgetown	5,479,196
	58	Kentucky	5,463,349
	59	Temple	5,330,530
	60	Vanderbilt	5,326,817
	61	York	5,323,215
	62	Brown	5,290,754
	63	Texas A & M	5,231,543
	64	Virginia Polytechnic	5,219,621
	65	McMaster	5,154,149
	66	Syracuse	5,094,536
	67	Washington State	5,074,987
	68	Manitoba	5,049,186
	69	Emory	5,041,346
9	70	Oregon	4,994,935
	71	Miami	4,901,463
	72	Iowa State	4,894,573
	73	Colorado	4,870,206
	74	Oklahoma	4,849,539
	75	Houston	4,818,244
	76	Florida State	4,809,676
	77	Missouri	4,786,262
	78	Nebraska	4,723,802
	79	Connecticut	4,679,503
	80	SUNY-Stony Brook	4,677,861
	81	Queen's	4,652,966
	82	Calif., Riverside	4,612,725
	83	Utah	4,584,786
	84	Massachusetts	4,578,741
	85	South Carolina	4,490,156
	86	Tennessee	4,251,536
	87	Rochester	4,094,382
	88	New Mexico	4,078,819
	89	SUNY-Albany	4,046,923
10	90	Alabama	3,970,408
	91	Kent State	3,924,206
	92	Guelph	3,894,000
	93	Dartmouth	3,892,028
	94	Colorado State	3,850,976
	95	Tulane	3,825,637
	96	Case Western Reserve	3,781,159
	97	Saskatchewan	3,730,665
	98	Notre Dame	3,429,552
	99	Rice	3,407,214
	100	Oklahoma State	3,121,607

Brigham Young figure not published.

RANK ORDER TABLE 12: TOTAL ITEMS LOANED

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 50,000 and over
2- 45,000-49,999
3- 40,000-44,999
4- 35,000-39,999
5- 30,000-34,999
6- 25,000-29,999
7- 20,000-24,999
8- 15,000-19,999
9- 10,000-14,999
10- 5,000- 9,999
11- under 5,000

Gp	Rank	Institution	Value
1	1	Minnesota	135,226
	2	Illinois	118,289
	3	Washington	114,359
	4	Wisconsin	95,497
2	5	Case Western Reserve	49,006
3	6	Calif., Los Angeles	44,450
4	7	Harvard	38,506
	8	Calif., Berkeley	35,713
5	9	Pittsburgh	30,479
6	10	Arizona	29,725
	11	Indiana	29,697
	12	Calif., Davis	29,634
	13	Kansas	29,311
	14	Iowa	29,099
	15	Chicago	28,721
	16	Southern Illinois	27,704
	17	McGill	27,675
	18	Ohio State	27,653
	19	Wayne State	26,388
	20	Rutgers	25,533
7	21	Texas A & M	24,577
	22	Georgia	24,138
	23	Stanford	23,204
	24	Duke	21,842
	25	British Columbia	21,097
	26	Florida	21,059
	27	Missouri	20,934
	28	North Carolina	20,018
8	29	SUNY-Buffalo	19,815
	30	Cincinnati	19,618
	31	MIT	18,695
	32	Cornell	18,624
	33	Connecticut	18,528
	34	Calif., Santa Barbara	18,464
	35	Calif., San Diego	16,664
	36	Florida State	16,105
	37	Rice	15,949
	38	Kentucky	15,833
	39	Vanderbilt	15,831
	40	Calif., Irvine	15,557
	41	Emory	15,135
9	42	Toronto	14,648
	43	Iowa State	14,411
	44	Tennessee	14,372
	45	Arizona State	14,330
	46	South Carolina	14,122
	47	Columbia	13,771
	48	Washington, St. Louis	13,719
	49	Pennsylvania State	13,526
	50	Yale	13,428
	51	Virginia Polytechnic	13,016
	52	SUNY-Stony Brook	12,831
	53	Oklahoma	12,720
	54	Johns Hopkins	12,713
	55	Maryland	12,703
	56	Texas	12,603
	57	SUNY-Albany	11,456
	58	Miami	11,057
	59	Manitoba	10,503
	60	Northwestern	10,394
	61	Western Ontario	10,357
	62	Nebraska	10,356
	63	Colorado State	10,327
	64	Purdue	10,287
	65	Colorado	10,020
10	66	Tulane	9,773
	67	Washington State	9,735
	68	Alberta	9,710
	69	Oklahoma State	9,522
	70	Kent State	8,960
	71	Massachusetts	8,900
	72	Virginia	8,791
	73	New York	8,683
	74	Louisiana State	8,490
	75	Oregon	8,298
	76	Princeton	8,072
	77	Pennsylvania	7,842
	78	York	7,618
	79	Temple	7,462
	80	Boston	7,454
	81	Utah	7,436
	82	Hawaii	7,280
	83	Michigan State	7,077
	84	Michigan	6,648
	85	Houston	6,633
	86	Dartmouth	6,582
	87	McMaster	6,219
	88	Alabama	6,193
	89	Calif., Riverside	5,315
	90	Southern California	5,273
	91	New Mexico	5,135
11	92	Brown	4,793
	93	Georgetown	4,759
	94	Brigham Young	4,610
	95	Notre Dame	4,447
	96	Queen's	4,013
	97	Syracuse	3,928
	98	Saskatchewan	3,821
	99	Guelph	2,679
	100	Howard	2,277

Figure for Rochester not available.

RANK ORDER TABLE 13: TOTAL ITEMS BORROWED

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 19,000 and over
2- 16,000-18,999
3- 13,000-15,999
4- 10,000-12,999
5- 7,000-9,999
6- 4,000-6,999
7- 1,000-3,999

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Illinois	31,548		49	Stanford	5,898
					50	Pittsburgh	5,841
2	2	Wisconsin	17,726		51	Michigan	5,813
					52	Tulane	5,739
3	3	Minnesota	15,325		53	Alberta	5,574
	4	Kansas	15,210		54	Brigham Young	5,566
	5	Johns Hopkins	13,916		55	Dartmouth	5,532
	6	Calif., Berkeley	13,218		56	Yale	5,279
					57	Cornell	5,135
4	7	Arizona State	11,730		58	Purdue	5,096
	8	Oklahoma	11,689		59	Harvard	5,085
	9	Florida	10,038		60	Calif., Davis	5,046
					61	Iowa	4,979
5	10	Calif., Santa Barbara	9,963		62	Louisiana State	4,819
	11	Kentucky	9,128		63	Tennessee	4,689
	12	Calif., Los Angeles	8,883		64	Oregon	4,631
	13	Northwestern	8,537		65	Columbia	4,521
	14	SUNY-Albany	8,124		66	SUNY-Stony Brook	4,465
	15	Toronto	8,123		67	Guelph	4,385
	16	Calif., Irvine	7,927		68	Michigan State	4,374
	17	Boston	7,692		69	North Carolina	4,320
	18	Cincinnati	7,623		70	Nebraska	4,309
	19	Connecticut	7,541		71	MIT	4,210
	20	Calif., Riverside	7,518		72	Emory	4,187
	21	Pennsylvania	7,416		73	Houston	4,104
	22	Texas	7,282		74	Western Ontario	4,097
	23	McGill	7,091		75	Southern Illinois	4,043
	24	Indiana	7,046		76	Princeton	4,033
6	25	Ohio State	6,935	7	77	Washington	3,999
	26	SUNY-Buffalo	6,831		78	South Carolina	3,912
	27	Pennsylvania State	6,782		79	Iowa State	3,892
	28	Texas A & M	6,760		80	Temple	3,823
	29	Arizona	6,567		81	Saskatchewan	3,786
	30	New York	6,466		82	Syracuse	3,694
	31	Calif., San Diego	6,448		83	New Mexico	3,574
	32	Kent State	6,360		84	Chicago	3,523
	33	Utah	6,346		85	Florida State	3,521
	34	Miami	6,227		86	Alabama	3,464
	35	Colorado	6,216		87	Virginia Polytechnic	3,400
	36	Massachusetts	6,182		88	Washington State	3,263
	37	Missouri	6,163		89	Duke	3,177
	38	Oklahoma State	6,163		90	Brown	3,151
	39	Case Western Reserve	6,145		91	York	3,114
	40	Vanderbilt	6,129		92	Hawaii	3,031
	41	British Columbia	6,117		93	Georgetown	2,935
	42	Colorado State	6,046		94	Virginia	2,867
	43	Georgia	6,025		95	Maryland	2,535
	44	Queen's	6,022		96	Wayne State	2,415
	45	Manitoba	5,957		97	Notre Dame	2,278
	46	McMaster	5,953		98	Southern California	1,740
	47	Rutgers	5,921		99	Howard	1,372
	48	Washington, St. Louis	5,919		100	Rice	1,226

Figure for Rochester not available.

RANK ORDER TABLE 14: CURRENT SERIALS EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1-	2,200 and over	6-	1,200-1,399
2-	2,000-2,199	7-	1,000-1,199
3-	1,800-1,999	8-	800- 999
4-	1,600-1,799	9-	600- 799
5-	1,400-1,599	10-	under 600

Gp	Rank	Institution	Value
1	1	Harvard	2,706,074
2	2	Stanford	2,150,982
	3	Michigan	2,089,926
	4	Calif., Los Angeles	2,027,167
3	5	Calif., Berkeley	1,997,808
	6	Illinois	1,922,851
	7	Washington	1,907,918
	8	Toronto	1,842,272
	9	Calif., Davis	1,839,808
	10	Texas	1,835,381
4	11	Rutgers	1,760,486
	12	Columbia	1,757,014
	13	Wisconsin	1,754,365
	14	Duke	1,721,153
	15	Minnesota	1,662,301
	16	Yale	1,646,078
5	17	Georgia	1,594,451
	18	Ohio State	1,586,824
	19	Arizona	1,566,008
	20	Southern California	1,556,738
	21	Iowa	1,472,784
	22	New York	1,462,480
	23	SUNY-Buffalo	1,461,311
	24	North Carolina	1,405,861
6	25	Pennsylvania State	1,388,343
	26	Northwestern	1,386,346
	27	Princeton	1,367,985
	28	Florida	1,364,714
	29	Kansas	1,360,570
	30	Howard	1,310,049
	31	Virginia	1,277,828
	32	Maryland	1,276,618
	33	Connecticut	1,261,569
	34	Virginia Polytechnic	1,258,817
	35	Iowa State	1,248,569
	36	Hawaii	1,243,707
	37	Southern Illinois	1,232,382
	38	Chicago	1,220,886
	39	Missouri	1,215,106
	40	Purdue	1,213,576
7	41	Indiana	1,199,241
	42	Cincinnati	1,176,963
	43	Nebraska	1,172,926
	44	Johns Hopkins	1,167,797
	45	Washington, St. Louis	1,164,624
	46	Boston	1,155,762
	47	Texas A & M	1,132,701
	48	Alberta	1,122,889
	49	Kentucky	1,109,648
	50	SUNY-Stony Brook	1,105,350
	51	Washington State	1,099,534
	52	Oklahoma	1,097,279
	53	Western Ontario	1,091,168
	54	Vanderbilt	1,087,151
	55	Pennsylvania	1,084,943
	56	Arizona State	1,084,244
	57	Calif., Irvine	1,084,032
	58	Louisiana State	1,079,310
	59	Michigan State	1,073,074
	60	SUNY-Albany	1,068,286
	61	MIT	1,054,239
	62	Calif., Santa Barbara	1,049,160
	63	Colorado	1,032,051
	64	Temple	1,028,547
	65	Syracuse	1,024,228
	66	Houston	1,015,658
	67	Tennessee	1,014,114
	68	Florida State	1,003,106
8	69	Case Western Reserve	996,746
	70	McGill	965,250
	71	Miami	947,215
	72	Emory	923,375
	73	Dartmouth	910,942
	74	Oregon	882,020
	75	Georgetown	876,316
	76	Manitoba	867,650
	77	Tulane	863,826
	78	Rice	842,241
	79	McMaster	840,302
	80	South Carolina	818,583
	81	Massachusetts	805,916
	82	Wayne State	803,626
9	83	Brown	776,239
	84	Saskatchewan	769,550
	85	Calif., San Diego	761,924
	86	Oklahoma State	708,492
	87	Pittsburgh	708,134
	88	Utah	700,960
	89	Colorado State	700,000
	90	Queen's	693,352
	91	Alabama	686,661
	92	New Mexico	671,646
	93	Rochester	669,950
	94	Calif., Riverside	647,806
	95	Notre Dame	638,485
	96	Guelph	601,000
10	97	Kent State	534,156
	98	York	500,627

Figures for British Columbia and Cornell not available; figure for Brigham Young not published.

ARL STATISTICS 1981-82

Instructions for Completion of the Questionnaire

1. Definitions of the statistical categories used in this questionnaire can be found in Library Statistics: A Handbook of Concepts, Definitions and Terminology (Chicago: American Library Association, 1966).

2. All figures should be rounded to the nearest whole number.

3. In a university which includes both main and branch campuses, an effort should be made to report figures for the main campus only. (The U.S. National Center for Education Statistics in its Higher Education General Information Survey describes a branch campus as one "located in a community different from that of its parent institution ... beyond a reasonable commuting distance from the main campus ... The educational activities at the location must be organized on a relatively permanent basis ... and include course offerings for one or more complete college-level programs of at least one full year.") If figures for libraries located on branch campuses are reported, please provide an explanatory footnote on p. 3 of the questionnaire.

4. Questions 1-5. Use the ALA definition for "Volume" as noted in instruction 1 above. Include duplicates and bound volumes of periodicals. Exclude microforms, nonprint materials, uncataloged items, and government documents unless cataloged. (Government document volumes classed separately may be included if cataloged.) If any of these items must be included, please provide an explanatory footnote on p. 3 of the questionnaire.

5. Question 6. Include duplicate subscriptions and government document serials. Because of the number of questions raised regarding the counting of serials, we call to your attention the definition to be used for this survey.

   > Publications constituting one issue in a continuous series under the same title published at regular or irregular intervals, over an indefinite period, individual issues in the series being numbered consecutively or each issue being dated. Newspapers as well as publications appearing annually or less frequently are included in the definition.

6. Questions 12-15 - Personnel. Report the number of staff in filled positions, or positions which are only temporarily vacant. Include staff hired for special projects and grants, but provide an explanatory footnote indicating the number of such staff on p. 3 of the questionnaire. The number of FTE staff should be determined on the basis of the length of the work week in the reporting library. Round figures to the nearest whole numbers.

7. Question 12. Since the criteria for determining professional status vary among libraries, there is no attempt to define the term "professional." Each library should report those staff members it considers professional, including, when appropriate, staff who are not librarians in the strict sense of the term, such as computer experts, systems analysts, budget officers, etc.

8. Questions 18-26 - Expenditures. Report all expenditures, regardless of whether the funds come from the regular library budget or from special funds, such as research grants. When special project or grant funds are included, please provide a footnote indicating the amount of such funds on p. 3 of the questionnaire. Include federal funds for work study students.

   Canadian libraries should report expenditures in both Canadian and U.S. dollars. To determine figures in U.S. dollars, divide Canadian dollar amounts by 1.2143, the average monthly noon exchange rate published in the Bank of Canada Review for the period July 1981 - June 1982.

9. Question 22. Exclude fringe benefits.

10. Question 23. Report net expenditures after any cost recovery. Exclude expenditures for buildings and maintenance.

11. Question 25. U.S. libraries should use the figure reported to the Department of Education on the form entitled, "Higher Education General Information Survey, Financial Statistics ... Fiscal Year Ending 1982," designated as NCES Form 2300-4. The figure needed is from Part B, line 12 of the HEGIS form.

12. Questions 27-28 - Ph.D. Degrees. Please note that only the number of Ph.D. degrees are to be counted. Statistics on all other advanced degrees (e.g., D.Ed., D.P.A., M.D., J.D.) are not required for this survey. If you are unable to provide a figure for Ph.D.s only, please note this in a footnote on p. 3 of the questionnaire.

13. Question 28. For the purposes of this report, Ph.D. fields are equivalent to the several hundred specific discipline specialties enumerated in the form used by the U.S. Department of Education entitled, "Higher Education General Information Survey, Degrees . . . Conferred," designated as NCES Form 2300-2.1A. Although the HEGIS form requests figures for all doctoral degrees, only fields in which Ph.D.s are awarded should be reported on the ARL questionnaire. Any exceptions should be noted in a footnote on p. 3 of the questionnaire.

14. Questions 29-32 - Enrollment. U.S. libraries should use figures reported to the Department of Education on the form entitled "Higher Education General Information Survey, Fall Enrollment and Compliance Report . . . 1981," designated as NCES Form 2300-2.3A. The line and column numbers on the HEGIS form for each category are noted on the questionnaire.

15. Reporting libraries are urged to record in the footnote section any information that would clarify the figures submitted, e.g., the inclusion of branch campus libraries. Explanatory footnotes will be included with the published statistics.

ARL STATISTICS QUESTIONNAIRE, 1981-82

Reporting Library _____

Questionnaire Completed by (Name) _____

Phone Number _____ Date Returned to ARL _____

COLLECTIONS (See instructions 4-5)

1. Volumes held June 30, 1981 (Exclude microforms and govt. docs.)
   (Record figure reported last year or footnote adjusted figure) _____
2. Volumes added during year - Gross
   (Exclude microforms and govt. docs.) _____
3. Volumes withdrawn during year
   (Exclude microforms and govt. docs.) _____
4. Volumes added during year - Net (Subtract line 3 from line 2) _____
5. Volumes held June 30, 1982 (Add line 1 to line 4) _____
6. Number of current serials, including periodicals, received
   (See instruction 5) _____
7. Reels of microfilm held June 30, 1982 _____
8. Number of microcards held June 30, 1982 _____
9. Number of microprint sheets held June 30, 1982 _____
10. Number of microfiche sheets held June 30, 1982 _____
11. Total microform units held June 30, 1982 (Add lines 7, 8, 9, 10) _____

PERSONNEL (See instructions 6-7) (Round figures to nearest whole number)

12. Number of professional staff, FTE _____
13. Number of nonprofessional staff, FTE _____
14. Number of student assistants, FTE _____
15. Total FTE staff (Add lines 12, 13, 14) _____

INTERLIBRARY LOANS

16. Items loaned: Originals _____; Photocopies _____; Total _____
17. Items borrowed: Originals _____; Photocopies _____; Total _____

ARL Statistics Questionnaire - Page 2

	Dollars Canadian (Canadian libraries only)	Dollars U.S. (Divide Canadian dollars by 1.2143)
EXPENDITURES (See instructions 8-11)		
18. Books, serials and other library materials	_____	_____
19. Current serials including periodicals (See instruction 5) (Subtotal of 18)	_____	_____
20. Binding	_____	_____
21. Total library materials and binding (Add lines 18, 20)	_____	_____
22. Total salaries and wages, including student assistants' wages (omit fringe benefits)	_____	_____
23. Other operating expenditures (See instruction 10)	_____	_____
24. Total library expenditures (Add lines 21, 22, 23)	_____	_____
25. Total university educational and general expenditures (See instruction 11)(Part B, line 12)	_____	_____
26. Library expenditures as percent of university expenditures (Divide line 24 by line 25)	_____	_____
PH.D. DEGREES (See instructions 12-13)		
27. Number of Ph.D.s awarded		_____
28. Number of fields in which Ph.D.s can be awarded		_____
ENROLLMENT - FALL 1981 (See instruction 14)		
29. Total full-time students (line 14, columns 13 and 14)		_____
30. Total FTE part-time students (line 28, column 15)		_____
31. Total full-time graduate students (line 11, columns 13 and 14)	_____	
32. Total FTE part-time graduate students (line 25, column 15)	_____	

ARL Statistics Questionnaire - Page 3

FOOTNOTES FOR ARL STATISTICS, 1981-82

(Compare with footnotes from previous year.)

1. Law Library statistics are included.

   ____ Yes ____ No ____ We do not have a Law Library.

2. Medical Library statistics are included.

   ____ Yes ____ No ____ We do not have a Medical Library.

3. Other libraries not included:

   _____

   _____

4. Figures include reports from branch campus libraries. (See instruction 3.)

   ____ Yes ____ No

5. If branch campus libraries are included, please specify which campuses:

   _____

   _____

6. Basis of volume count is: ____ Physical ____ Bibliographical

7. Count of current serials (question 6) includes government document serials.

   ____ Yes ____ No

8. Fringe benefits are included in expenditures for salaries and wages (question 22).

   ____ Yes ____ No

9. Other comments:

   _____

   _____

   _____

   _____

   _____

FOOTNOTES TO ARL STATISTICS, 1981-82

Institution	Category from Main Table	Notes
ALABAMA		Figures are as of September 30, 1982.
	(1)	Includes Geology Library, and Administrative Library holdings reported for the first time this year.
ALBERTA		Excludes Extension Library, Boreal Institute Library, St. Joseph's College Library, St. Jean Library, and Map Library.
		Part-time enrollment figures are numbers of students, not FTE.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $3,496,727; (13) $1,363,524; (14) $171,890; (15) $3,668,617; (16) $6,837,758; (17) $859,860; (18) $11,366,235.
ARIZONA	(1)	Includes government documents received through 1978.
	(12,16,17)	Includes special grant funds of $99,991 for materials, $198,917 for salaries and wages, and $61,476 for other operating expenditures.
		Microcard count includes microprint sheets.
BOSTON		Includes the Theology Library.
		Ph.D. count includes all doctorates other than M.D. and D.M.D.
BOSTON PUBLIC		Microcard count includes 48,457 aperture cards.
BRIGHAM YOUNG		Figures are as of August 31, 1982.
	(12-18)	Reported, but not published.

Institution	Category from Main Table	Notes
BRIGHAM YOUNG (cont'd)	(19,20)	Includes 5 professionals, 3 nonprofessionals, and some student assistants in the administrative unit of the Learning Resources Centers added to the library in September 1981.
BRITISH COLUMBIA		Figures are as of March 31, 1982.
	(19, 20, 22)	Salaries of 6 nonprofessionals are paid from revenues; salaries of 5 librarians and 32 nonprofessionals are paid from grants.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $3,781,209; (14) $174,402; (15) $3,955,611; (16) $8,901,978; (17) $1,020,314; (18) $13,877,903.
BROWN		Includes John Carter Brown Library which was not included in previous years' reports.
	(18)	Includes Title II-C funding.
CALIF., BERKELEY		Number of Ph.D. fields is an estimate.
CALIF., IRVINE	(1)	1980-81 figure revised.
CALIF., LOS ANGELES	(1)	1980-81 figure revised due to converting government documents to volumes and including 8 non-affiliated campus libraries not previously reported.
	(1-3)	Initial volume count in 1940s was bibliographical; subsequent counts of added volumes have been physical.
		Microfiche count includes microcards and microprint sheets.
		Ph.D. count includes Ed.D. and D.S.W. degrees.
CALIF., RIVERSIDE	(12)	Includes $1,900 in Title II-A grant funds.
	(16)	Includes $8,937 in federal work study funds.
		Microfiche count includes microcards and microprint sheets.

Institution	Category from Main Table	Notes
CALIF., SANTA BARBARA	(6-8)	Includes materials loaned through regional network not previously included.
CALIF., SAN DIEGO	(1)	1980-81 figure revised.
CASE WESTERN RESERVE	(1)	1980-81 figure revised.
	(1-3)	Count is physical for some libraries and bibliographical for others.
CENTER FOR RES. LIBS.		Microfiche count includes microcards.
CHICAGO	(1-3)	Includes a bibliographical count of microforms.
	(22)	Includes 8 FTE staff on special grants.
CINCINNATI		Excludes Raymond Walters and Clermont.
	(1)	1980-81 figure revised. Excludes government documents maintained in separate collection (170,875) although collection is brief-listed in the card catalog.
	(1-4)	Because of variant practices in departmental libraries, count is both physical and bibliographical.
COLORADO STATE	(16)	Includes fringe benefits.
COLUMBIA	(1)	1980-81 figure revised.
		Full-time total enrollments include candidates for first professional degrees; graduate student enrollments do not.
CONNECTICUT		Does not include branch campus libraries in Hartford, Groton, Stamford, Torrington, and Waterbury.
	(1-3)	Includes: monographs over 10 pages, annual reports, hearings, committee prints, and bound volumes of periodicals.
CORNELL		Includes Annex Library storage facility and library at Geneva Experiment Station.

Institution	Category from Main Table	Notes
CORNELL (cont'd)	(1)	1980-81 figure revised.
	(12)	Includes $126,490 in grant and special project expenditures.
	(16)	Includes $33,650 in work study funds.
	(22)	Includes 10 professional and 21.3 nonprofessional staff paid from grants and special projects.
DARTMOUTH	(1)	Includes government documents.
	(19-22)	Includes 1 professional, 6 nonprofessionals, and .5 FTE student assistants paid from grant funds.
DUKE	(1)	1980-81 figure revised.
	(4)	Excludes Medical Library.
	(6-11)	Includes requests not filled and referred to Medical Library.
		Microfiche count includes microcards and microprint sheets.
		Count of Ph.D. subjects is number of departments rather than number of fields.
EMORY		Includes Oxford College Library for the first time this year.
	(19 - 22)	Includes 2.5 FTE professionals, 3 FTE nonprofessionals, and 1 FTE student assistant paid from grant funds.
		Microfiche count includes microcards and microprint sheets.
FLORIDA	(18)	Figure does not include $280,303 in Title II-C funds subcontracted to other ARL libraries.
FLORIDA STATE	(4)	717,512 documents not included in this figure.
	(16)	Includes some fringe benefits.
GEORGETOWN		Excludes Center for Population Research (2,000 volumes)

Institution	Category from Main Table	Notes
GEORGETOWN (cont'd)	(1)	1980-81 figure revised.
	(17)	Library computer costs of $44,760 are not included as they are not charged to the Library's budget.
GEORGIA		Includes experiment stations at Griffin, Tifton, Skidaway, and Sapelo.
GUELPH	(12-18)	Expenditures reported in Canadian dollars were: (12) $1,655,000; (13) $730,000; (14) $58,000; (15) $1,713,000; (16) $2,725,000; (17) $290,000; (18) $4,728,000.
	(17)	Includes cost of computer operations in the amount of Can. $93,652 (maintenance of minicomputer and terminals, $56,160, and charges for use of University's main computer, $37,492).
HARVARD		Includes research institutions in District of Columbia, Texas, and Italy.
	(18)	Separate figure for expenditures from grants and special projects not available. Expenditures do not include fringe benefits ($2,198,235), building and maintenance charged to library budgets ($2,531,182), cost-recovery items ($1,244,094). Total reported expenses including these items: $27,056,228.
HAWAII		Excludes Industrial Relations Library, Hawaii Institute of Geophysics Library, and School of Public Health Reference Collection, all not under university library administration.
HOUSTON		Figures are as of August 30, 1982.
HOWARD		Includes figures for library units excluded in previous years' reports.
	(4,5)	1980-81 figure revised.
		Microfilm and microcard counts corrected from previous years' reports based on Law Library inventory.

Institution	Category from Main Table	Notes
ILLINOIS		Part-time enrollments are headcounts, not FTE.
INDIANA	(1)	1980-81 figure revised.
		Figures are reported for the Bloomington campus only. Prior to 1979-80 figures were reported in addition for the the six regional campuses and the Indianapolis campuses. System-wide figures for all campuses of the University, comparable to those reported in previous years, are: (1) 5,538,155; (2) 288,040; (3) 192,063; (4) 2,175,114; (5) 46,090; (6) 18,530; (7) 25,824; (8) 44,354; (9) 14,007; (10) 16,245; (11) 30,252; (12) $4,484,304; (13) $2,380,444; (14) $258,763; (15) $4,743,067; (16) $8,041,887; (17) $1,088,425; (18) $13,873,379; (19) 167; (20) 300; (21) 192; (22) 659.
	(19-22)	Includes 1 FTE professional and 4 FTE nonprofessionals paid from Title II-C grant funds.
IOWA	(5)	Includes only those government documents received on paid subscriptions.
	(18)	Includes $54,460 in gifts and $62,075 in federal grant funds.
	(20)	Includes 1.5 FTE paid from grant funds.
JOHN CRERAR		Collections data include Crerar Library only. Fiscal and staff data include all services, grant and contract operations. All data represent the latest figures available and are for the period October 1, 1980 - September 30, 1981.
	(1-4)	Data are adjusted from previous years' bibliographic count in accordance with an actual physical count.
	(1-5)	Includes government documents.

Institution	Category from Main Table	Notes
JOHNS HOPKINS		Includes Peabody Conservatory Library, Welch Medical Library, School of Hygiene and Public Health Library, Applied Physics Laboratory Library, and School of Advanced International Studies in Washington, D.C.
		Microcard count includes microprint sheets.
KANSAS		Includes Law Library at Lawrence, and branch School of Medicine and Regents Center campuses in Kansas City.
	(1)	1980-81 figure revised by 25,472 to delete Law Library government documents reported previously.
	(18)	Includes special and grant acquisition funds totalling $180,616; and OOE special and grant funds totalling $9,764.
	(19-22)	Includes 6 FTE professionals, 1 FTE nonprofessional, and .4 FTE student assistants that are grant funded positions.
		Count of Ph.D. fields includes one joint program with Kansas State, for a total of 57 fields at Lawrence campus and 7 at Medical Center in Kansas City.
KENT STATE	(17)	Includes fringe benefits.
LIBRARY OF CONGRESS		All figures are as of September 30, 1982.
	(1)	1980-81 figure revised.
	(5)	Does not include newspapers (1,675 titles plus 1,343,390 volumes and 433,675 pieces) or current periodicals (1,697,180 volumes and 383,001 pieces).
LINDA HALL		Holdings are as of December 31, 1981.
LOUISIANA STATE		Includes Veterinary Medicine Library, except for interlibrary loans (6-11) and serials and binding expenditures (13, 14).
	(1)	Includes bound government documents.

Institution	Category from Main Table	Notes
LOUISIANA STATE (cont'd)	(19)	Does not include 4 new professional positions, which have not yet been filled.
McGILL		Figures are as of May 31, 1982.
	(1)	1980-81 figure revised.
	(12)	Includes Can. $171,000 in special funds.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $2,046,079; (13) $1,172,103; (14) $144,143; (15) $2,190,222; (16) 6,710,455; (17) 556,251; (18) $9,456,928.
		Microcard count includes microprint sheets.
McMASTER	(12-18)	Expenditures reported in Canadian dollars were: (12) $2,419,490; (13) $1,020,379; (14) $66,266; (15) $2,485,756; (16) $3,096,068; (17) $676,861; (18) $6,258,685.
	(17)	Includes fringe benefits of approximately $300,000.
MANITOBA	(7, 10)	Includes AV and microform materials.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $1,568,483; (13) $1,053,588; (14) $86,888; (15) $1,655,371; (16) $4,122,424; (17) $353,432; (18) $6,131,227.
	(12,16,17)	Includes grants (in Canadian dollars): (12) $33,053; (16) $42,751; (17) $23,494.
	(19,20)	Includes 1 FTE professional and 2 FTE nonprofessionals paid through grant funds.
		Microfiche count includes microcards and microprint sheets.
MARYLAND		College of Library and Information Services data are included for collections and expenditures, but not for personnel.

Institution	Category from Main Table	Notes
MARYLAND (cont'd)	(16, 21)	Expenditures for federal work study students are not included, but these students are included in the calculation of FTE student assistants.
	(18)	Includes $356,248 of special project or grant funds.
		Microfiche count includes microcards and microprint sheets.
MASSACHUSETTS	(5)	Includes some government documents which are cataloged separately from the Government Documents Collection.
MIAMI	(16)	Excludes Director's salary.
	(16, 20)	Includes 9 nonprofessionals hired for special project with University funds.
		Microfiche count includes microcards and microprint sheets.
MICHIGAN		Excludes Dearborn Campus Library and the University of Michigan, Flint Library.
	(1)	1980-81 figure revised.
		Microfiche count includes microcards and microprint sheets.
MICHIGAN STATE	(1)	1980-81 figure revised. Includes 553,580 volumes in Document Library.
		Microcard count includes microfiche sheets.
MINNESOTA	(1)	1980-81 figure revised based on actual counts taken in the Law and Geology Libraries.
MISSOURI	(17)	Includes $54,143 of special and grant funds.
NAT. AGRIC. LIB.		U.S.D.A. field libraries not included. Figures are as of September 30, 1982.
	(1)	1980-81 figure revised.
	(16)	Includes fringe benefits.

Institution	Category from Main Table	Notes
NAT. AGRIC. LIB. (cont'd)	(18)	Original appropriation was reduced by $1,715,674 for expenses connected with the transfer of the Food Nutrition Information Center to the Human Nutrition Information Service, the Law Library to the Office of the General Counsel, necessary administrative support, and central charges.
NAT. LIB. OF CANADA		Figures for holdings, interlibrary loans, and expenditures are as of March 31, 1982.
	(4)	Figure is lower than actual holdings because of some unreported government documents collections.
	(5)	Includes some, but not all, government document serials.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $1,252,844; (13) $327,543; (14) $19,022; (15) $1,271,866; (16) $12,525,695; (17) $7,727,977; (18) $21,525,538.
	(19-22)	Figures represent headcount (as of September 20, 1982), not FTE.
NAT. LIB. OF MED.	(12-22)	Statistics on personnel and expenditures reflect only the Library Operations component of the National Library of Medicine, namely: Reference Services Division, Bibliographic Services Division, Technical Services Division, History of Medicine Division, Medical Subject Headings Section, and the Office of the Associate Director for Library Operations.
NEWBERRY	(1)	1980-81 figure revised.
	(6-11)	Incomplete figures; Rare Book Room not included.
	(14)	Covers in-house bindery and conservation laboratory, less salaries.
	(16)	Includes $298,944 in grant funds.
	(17)	Includes $387,950 in grant funds.

Institution	Category from Main Table	Notes
NEW MEXICO		Microfiche count includes microcards.
		Figure for Ph.D. fields is estimated.
NEW YORK	(1)	Figure adjusted from earlier reports to exclude 341,554 documents previously included.
	(13)	Does not include subset of Dental Library's $25,400 materials expenditures.
	(16)	Includes federal work study grants of $130,608 and special project salaries of $50,909 which were not previously reported.
	(17)	Includes special project costs of $162,414 which were not previously reported.
	(22)	Includes special project personnel.
		Part-time student enrollment does not include Continuing Education which was previously reported.
NEW YORK PUBLIC	(1)	1980-81 figure adjusted to include available materials in deferred cataloging status.
	(5)	Beginning in 1976, serial count comprised both serials and periodicals. Prior to 1976 only periodical titles were reported. Includes current and dead titles; no separate count kept of current cataloged titles.
	(12-18)	1981-82 expenditure figures not yet available. Expenditures for 1980-81 were: (12) $3,106,000; (14) $447,000; (15) $3,553,000; (16) $16,447,000; (17) $5,444,000; (18) $25,444,000.
		Microcard count includes microprint sheets.
NORTH CAROLINA	(19, 20, 22)	3 FTE professionals and 1 FTE nonprofessional funded on federal grant.

Institution	Category from Main Table	Notes
NORTH CAROLINA (cont'd)	(18)	Includes $610,693 in grants and special project funds. Does not include federal work study funds.
NORTHWESTERN		Includes Dental Library.
	(1,4)	1980-81 figure revised.
	(12-18)	Includes project and grant funds as follows: (12) $174,658; (14) $4,926; (16) $179,335 and $198,703 of federal work study funds; (17) $92,917.
	(19-22)	Includes 9 FTE professionals, 1 FTE nonprofessional, and 2 FTE students on special projects.
NOTRE DAME	(1)	1980-81 figure revised.
	(4)	Does not include microforms in various departmental collections. Microprint sheet count includes microcards.
OHIO STATE		Includes University Archives.
	(12)	Includes $4,166 in grant funds.
	(16)	Includes $27,121 in grant funds and $185,788 in funds for work study students.
	(17)	Includes $5,462 in grant funds.
	(19-22)	Includes 2.5 FTE professionals, 5 FTE nonprofessionals, 1 FTE student on special grant funds.
OKLAHOMA STATE		Excludes OSU Technical Institute in Oklahoma City and OSU School of Technical Training in Okmulgee.
OREGON	(5)	Estimated figure.
PENNSYLVANIA STATE		Includes main campus and branches at Allentown, Altoona, Beaver, Berks, Delaware Co., DuBois, Fayette, Hazleton, McKeesport, Mont Alto, New Kensington, Ogontz, Schuylkill, Scranton, Shenango Valley, Wilkes-Barre, York, Behrend College and Radnor Graduate Center. Excludes Capitol Campus at Middletown, Pennsylvania.

Institution	Category from Main Table	Notes
PENNSYLVANIA STATE (cont'd)	(17)	Includes $157,576 partial payment on computer upgrade.
		Microfiche count includes microcards.
PITTSBURGH		Excludes 4 regional campus libraries: Bradford, Greensburg, Johnstown, and Titusville.
	(12-18)	Includes gifts, grants, and endowments as follows: (12) $161,499; (13) $17,093; (14) $14,066; (16) $25,794; (17) $18,724.
PRINCETON	(1)	1980-81 figure revised.
	(20)	Includes 2 nonprofessionals on grant funds.
PURDUE	(1)	1980-81 figure revised.
	(5)	Estimated figure.
QUEEN'S		Excludes Library of the Industrial Relations Centre.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $1,790,165; (13) $841,938; (14) $120,154; (15) $[illegible],910,319; (16) $3,237,348; (17) $502,432; (18) $5,650,099. Expenditures calculated on a different basis from previous year, so accurate comparisons with 1980-81 figures not possible.
RICE	(6-8)	Interlibrary loan activity was suspended for 3 months during 1981-82.
	(19,20)	Includes 2 professional and 2 nonprofessional FTE funded by grants.
ROCHESTER		Includes Sibley Music Library of Eastman School of Music.
	(1)	1980-81 figure revised.
	(12)	Includes $1,564 in grant funds.

Institution	Category from Main Table	Notes
RUTGERS		Figures include services to a non-Rutgers medical school, colleges and professional schools in Camden, Newark, and New Brunswick. They do not include two law libraries previously included.
	(1)	Revised 1982 figure due to physical count in one branch library.
SASKATCHEWAN		Excludes Theological College libraries on campus that are not part of the library system.
		Expenditures reported in Canadian dollars were: (12) $1,596,138; (13) $934,464; (14) $52,902; (15) $1,622,040; (16) $2,636,479; (17) $271,628; (18) $4,530,147. Expenditures based on a ten-month (July 1981 - April 1982) transitional budget year.
	(16)	Includes fringe benefits.
		Microfiche count includes microcards and microprint sheets.
SMITHSONIAN		Figures are as of September 30, 1982.
		Includes Smithsonian Astrophysical Observatory in Cambridge, Mass. and Mt. Hopkins, Ariz.; Cooper-Hewitt Museum in New York City; and Smithsonian Tropical Research Institute in Panama. Excludes Hirshhorn Museum and Sculpture Garden, Woodrow Wilson International Center for Scholars, Freer Gallery of Art, National Museum of American Art, and National Portrait Gallery.
	(1)	Previous year's figure included volumes held by the National Museum of American Art/National Portrait Gallery.
	(1-3)	Includes microforms in volume equivalents.

Institution	Category from Main Table	Notes
SMITHSONIAN (cont'd)	(17)	Includes $235,000 for building renovation.
	(22)	Only 93 FTE can be filled (except student assistants).
SOUTHERN CALIF.		Includes the Andrus Gerontology Center Library and the Hancock Library of Biology and Oceanography. Does not include the Safety and Systems Management Library.
SOUTHERN ILLINOIS		Excludes Center for Dewey Studies; Papers of Ulysses S. Grant; Instructional Development, Research and Evaluation Faculty of Learning Resources Service; School of Medicine Library (Springfield). Includes the School of Law Library, which is not administratively part of Library Affairs.
	(1)	1980-81 figure revised to include cataloged government documents not previously included for Law Library.
STANFORD	(1)	1980-81 figure revised.
	(17)	Includes $173,151 of grant funds.
		Microfiche count includes microcards and microprint sheets.
SUNY, ALBANY		Includes the Graduate Library of Public Policy (formerly Hawley Library) on East campus.
	(2)	Includes 8,268 volumes in Special Collections reported for the first time.
	(16)	Excludes federal work study allocations.
		Microform figures revised based on an actual physical count/measurement.
SUNY, BUFFALO		Figures are as of March 31, 1982.
	(1)	1980-81 figure revised.
	(2, 3)	Includes 87,000 technical reports.

Institution	Category from Main Table	Notes
SUNY, STONY BROOK		Figures are as of March 31, 1982.
	(16)	Includes $2,622 from subcontract with Regional Medical Library.
SYRACUSE		Excludes Utica College.
	(16)	Includes $88,000 for Academic Computer Center staff.
	(19)	Includes 3.5 FTE in Academic Computer Center.
TEMPLE		Excludes Journalism, Health, Physical Education, Recreation, and Dance Libraries and other departmental collections.
	(1)	Includes 14,914 volumes incorporated into the Central Library System from Instructional Materials Center and reported for the first time this year.
	(12)	Includes $53,878 in grant funds.
	(16)	Includes $32,668 in grant and endowment funds and $75,648 in work study funds.
	(17)	Includes $13,623 in grant and endowment funds.
TENNESSEE	(19, 20)	Includes 2 FTE professionals and 1 FTE nonprofessional on grants.
		Microcards included in count of microprint sheets.
TEXAS		Figures are as of August 31, 1982 and include the General Libraries, Law Library, and the Humanities Research Center.
	(5)	Estimated figure.
	(15)	Includes expenditures of $2,998,075 by General Libraries, $490,984 by Law Library, and $1,500,000 by Humanities Research Center.

Institution	Category from Main Table	Notes
TEXAS (cont'd)	(16)	Includes Title II-C and federal work study funds.
	(22)	Includes staff hired on grant funds.
TEXAS A & M	(1-5)	Holdings are as of August 31, 1982.
	(1, 5)	Includes Medical Library holdings up to, but not since, September 1, 1980.
TORONTO		Includes only the libraries of the university within the President's budget; excludes the libraries of the federated and affiliated institutions.
	(1)	Includes government documents, some of which are cataloged.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $4,902,966; (13) $2,237,071; (14) $223,446; (15)$5,126,442; (16) $13,042,772; (17) $1,438,772; (18) $19,607,986.
TULANE		Includes Delta Primate Center in Covington, La.
	(4)	Excludes holdings for Medical Library.
		Microfiche count includes microcards and microprint sheets.
VANDERBILT	(1)	1980-81 figure revised.
	(6-11)	Excludes Law Library.
	(12)	Includes $138,662 for video tapes not included in collections count.
		Microcards included in count of microprint sheets.
		Part-time enrollments are headcounts, not FTE.
VIRGINIA POLY.		Microcard count includes microprint sheets.
WASHINGTON	(1)	1980-81 figure revised.

Institution	Category from Main Table	Notes
WASHINGTON (cont'd)	(5)	Includes only government document serials that are cataloged.
		Microcard count includes microprint sheets.
WASHINGTON STATE	(19-21)	Includes 3 FTE professionals, 11 FTE nonprofessionals, 9.37 FTE students for Instructional Media Services.
	(22)	Decrease in figure from previous year due to budget reductions.
WASHINGTON, ST. LOUIS	(1, 4)	1980-81 figures revised.
	(5)	Includes those government document serials that are fully cataloged.
WAYNE STATE	(15-17)	Includes project and grant funds as follows: (15) $13,251; (16) $906,784; (17) $592,118.
	(19-22)	Includes FTE staff on special projects or grants: 6 professional, 13 non-professional, 9 student assistants.
WESTERN ONTARIO		Excludes libraries of 3 affiliated colleges, School of Library and Information Science, libraries operated within single university departments.
	(1)	1980-81 figure revised; last year's report included government documents.
	(1-4)	Holdings are as of April 30, 1982.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $2,431,998; (13) $1,325,005; (14) $113,140; (15) $2,545,138; (16) $4,734,151; (17) $788,308; (18) $8,067,597.
		Microfiche count includes some microprint sheets.
WISCONSIN	(1)	1980-81 figure revised; includes 31,081 volumes from Graduate Social Science Reference Library reported for the first time.

Institution	Category from Main Table	Notes
WISCONSIN (cont'd)	(18)	Includes $150,907 of federal grant and work study funds.
	(22)	Includes 11.5 FTE paid by federal grant and work study funds.
YALE	(15)	Excludes $69,468 for acid-free and other preservation supplies.
	(18)	Total expenditures exclude fringe benefits, $1,461,587; utility costs, $1,084,792; buildings and grounds maintenance, $1,223,587; central university assessments, $573,081; capital outlays (renovations), $1,200,475; new construction, $3,221,432. The total library expenditures were $22,972,985.
YORK		Includes Glendon campus.
	(1)	1980-81 figure adjusted.
	(5)	Includes 7,014 government document serials not included in previous year's reports.
	(13)	Lower than previous years due to deferral of a substantial invoice to fiscal 1983.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $1,734,244; (13) $607,911; (14) $90,168; (15) $1,824,412; (16) $3,772,933; (17) $866,636; (18) $6,463,981. Figures are as of April 30, 1982.
	(19)	Includes 1 FTE paid by special project funds.
		Statistical information on enrollments is in fiscal full-time equivalents.
		Microfiche count includes microcards and microprint sheets.

ARL STATISTICAL COMPILATIONS

1. ARL Statistics.

Published annually. Formerly Academic Library Statistics; title changed with 1974-75 edition.

a. 1963-64 to date.

Current issues available from the Association. Price: $10.00 per issue (ARL members, $8.00). When out-of-print, this publication may be ordered from:

Eric Document Reproduction Service
P.O. Box 190
Arlington, Virginia 22210

b. 1919-20 to 1962-63.

Compiled by Princeton University Library and available from:

University Microfilms International
300 North Zeeb Road
Ann Arbor, Michigan 48106

1) 1944-45 to 1962-63. Special Film No. S-338.

Published as "Princeton University Library Statistics."

2) 1919-20 to 1943-44. AG 1-OP30634.

Originally published in 1947 under title: College and University Library Statistics.

2. Cumulated ARL University Library Statistics, 1962-63 through 1978-79. 1981.

Compiled by Kendon Stubbs and David Buxton for the Committee on ARL Statistics. Includes ARL annual statistics and salary data, plus data on university enrollments, expenditures, federal support, and Ph.D.'s awarded from non-ARL sources and not included in the printed ARL Statistics.

a. Book format. Available from the Association. Price: $15.00 (ARL members, $10.00).

b. 1600 b.p.i., 9-track magnetic tape. Suitable for use with SPSS, BMDP, SAS, and other statistical software. Price: $40.00 (with documentation).

Order from: Kendon L. Stubbs
Alderman Library
University of Virginia
Charlottesville, Virginia 22901

3. The ARL Library Index and Quantitative Relationships in the ARL. 1981.

A detailed description of the index developed as a summary indicator of relative ARL library size, prepared by Kendon Stubbs for the Committee on ARL Statistics. Available from the Association. Price: $5.00 (ARL members, $2.50).

4. ARL Annual Salary Survey.

Published annually since 1967-68. Provides data on beginning and median professional salaries, as well as numbers and average salaries for positions in ARL university libraries and distribution of these positions by sex and minority group, and by location, size, and type of institution.

Current issues available from the Association. Price: $10.00 per issue (ARL members, $8.00). When out-of-print, this publication may be ordered from:

Eric Document Reproduction Service
P.O. Box 190
Arlington, Virginia 22210

Orders for ARL publications should be prepaid and sent to:

Association of Research Libraries
1527 New Hampshire Avenue, N.W.
Washington, D.C. 20036